Oil, Paint and Drug Reporter

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Volume 150 No. 19 November 4, 1946

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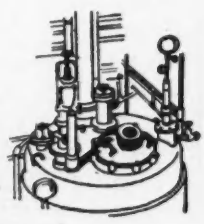

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Oil, Paint and Drug Reporter

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Soda Ash Export Control Tightened

OPD Washington Bureau

Soda ash has been placed under strict export control by the Office of International Trade in a move to prevent too much of this material being siphoned off by the export market and adding to the acute shortage in this country.

Effective November 4, soda ash was placed on the "positive" list by the OIT and no further shipments will be permitted without an individual license. Provision is made for small quantity shipments under general license, the maximum being $100 in the case of shipments to group "K" destinations and $25 to group "E" countries.

Export restrictions apply to those forms of soda ash included in the Department of Commerce schedule B No. 836500 (carbonate, calcined or soda ash) and No. 837900 (soda ash, causticized).

Liming Matter Pricing System Revised by OPA

OPD Washington Bureau

Price adjustment provisions of RMPR 386, covering agricultural liming materials have been amended by the Office of Price Administration to permit producers to apply for higher ceilings.

Maximum prices for such products when used for non-agricultural purposes were recently adjusted so that they are higher than maximum prices for such products used for purely agricultural purposes. This has resulted in a diversion of these materials from agricultural use. To remedy this situation, the OPA changed the individual adjustment provisions of the regulation so that a producer of agricultural liming materials used for agricultural purposes may secure an adjustment in his maximum price which will give him the same price for these materials as he has for them when used for non-agricultural purposes.

Calcium Chloride, Other Chemicals Decontrolled

OPD Washington Bureau

The Office of Price Administration has decontrolled certain chemicals, household scouring powders and cleansers, but not soap and other soap products, and rubber paint.

The chemicals removed from price ceilings are barium chemicals, not including mixtures with other compounds; calcium chloride; chlorinated natural rubber; furnace carbon blacks, including but not limited to semi-reinforcing and high modulus grades; products such as road tar containing 85 percent or more by weight of carburated water-gas tar, and sodium silicates.

OPA defines scouring powders and cleansers as those containing a maximum of five percent anhydrous soap and a minimum of 60 percent mineral abrasive.

Scarce Supply Items List Revised by D. of A.

Secretary of Agriculture Clinton Anderson made only a few minor changes in the November 1 list of agriculture commodities in scarce supply. Five food items were deleted: — buckwheat flour, fresh oranges, canned vegetables, cured fish and fresh and frozen North Atlantic sea herring.

Continued to be listed among the products in scarce supply are such items as seed screenings; animal tankage and meat scrap and other animal products for feeding stuffs; soybeans; cottonseed; flaxseed; peanut oil; peanut meal; olive oil; tung nuts; gum turpentine; fish meal and fish scrap, and fish oil, except fish liver oils.

All of these items have been removed from price control.

Linseed Oil Price Ceiling Eliminated

OPD Washington Bureau

Linseed oil and other drying oils, coconut oils, fish oils, inedible tallow and grease and a number of other items were removed from price control by the Office of Price Administration, October 29. At the same time the agency said that processors who have been selling linseed oil under adjustable pricing may collect 1.7 cents per pound more than former ceilings.

Drug Prices Parley Planned for Nov. 7

OPD Washington Bureau

A meeting of the newly formed industry advisory committee for packaged and private formula drugs has been scheduled by the Office of Price Administration for November 7 to discuss adjustments in ceiling prices to offset increased costs in the industry.

While industry representatives have not disclosed the recommendations they will make to OPA, there is strong sentiment among the members in favor of decontrolling these drugs rather than piecemeal adjustment of prices.

They point out that the industry has made no demands on the OPA for relief, that the committee was established on the initiative of the OPA itself, and that the greatest relief the OPA could extend would be to decontrol these products and thus end the red tape occasioned by its regulations.

Penicillin 'G' Rules Revision Scheduled

OPD Washington Bureau

Crystalline penicillin containing not less than 90 percent of "G" penicillin will be permitted to be labeled and sold as penicillin "G" under amendment to regulations to be issued in the next ten days by the Food and Drug Administration.

The decision to permit the sales of such penicillin under a "G" label was reached by officials in a conference with representatives of the producers October 24 and 25. It is understood that five of the producers already have a supply of the tested "G" type on hand and will be ready to offer it for sale as soon as the authority is granted.

Other revisions in the regulations having to do with assay methods also were discussed at the meeting and will be announced later.

CPA Weighing Actual Need Of Output, Distribution Orders

OPD Washington Bureau

Informal action looking towards the dissolution of the Civilian Production Administration early next year was taken last week by CPA Administrator J. D. Small, with establishment of a special committee to survey the need for all production and distribution control orders still existing, in preparation of a report to the President on this subject by the end of the year.

The action of Mr. Small came to light amidst a series of other developments in the sudden pre-election movement of the government to free industry of wartime control and return to a free economy.

One of these developments included the placing of the finishing touches to the master list of items to remain under price control because of their importance to business costs. Because disputes still surround some of the items intended for decontrol, publication of the list may be delayed for a while, OPA officials said October 31.

Another development was the initiation of studies by the Office of War Mobilization and Reconversion of the advisability of establishing a special agency to handle all remaining CPA and OPA control orders, rather than turning these orders over to the regular departments of the government, after it is determined how many of such orders are indispensable.

The committee set up by CPA Administrator Small is headed by Lucius F. Foster, director of the CPA bureau of reconversion priorities, and is composed of the directors of the various CPA industry divisions.

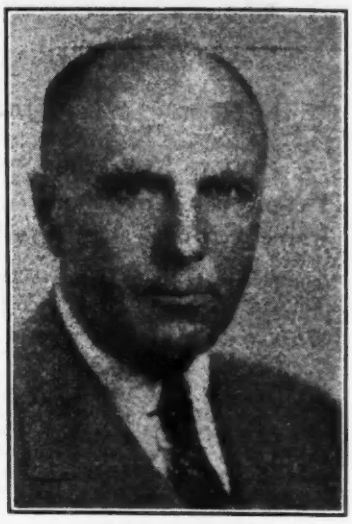
The committee is working along three lines:—what orders will have to be continued next year; the date when unneeded orders can be terminated; and in which agencies those orders that will have to be continued should be lodged.

The results of the committee's studies will form an important part of the report which President Truman

—*Continued on page 45*

Derby Heads USO Fund's Chemicals Div.

Harry L. Derby, who retired July 31 as president of the American Cyanamid & Chemical Corporation, New York, has been appointed chairman of the chemicals section for the current New York USO campaign.



Harry L. Derby

Also active in the campaign as committeemen in the chemicals section are John Powell, president of John Powell & Co., manufacturer of insecticides, and H. R. Wemple, vice-president of the Texas Gulf Sulphur Company.

The New York campaign goal is $2,750,000, which is that city's share of the national goal of $19,000,000.

Streptomycin Quota System Suspended

The Civilian Production Administration has suspended its quota system for distributing streptomycin. The drug may now be ordered direct from suppliers without restriction during November by hospitals and sanitoriums.

Scientific Instruments Decontrolled by OPA

OPD Washington Bureau

The Office of Price Administration announced the decontrol of the following products effective November 1:—Battery containers of plastics used for electric storage batteries, industrial and scientific technical glass products; printers rollers, composition of the glue and glycerin type designed for use with printing machinery; paper and wood matches; fused quartz, fused silica, bones of all types used for making bone meal and bone ash.

Blackstrap Molasses Upped for Stock Feed

Cuban blackstrap molasses totaling 1,400,000 gallons is to be sold for stock feeding purposes, according to an announcement made by the Department of Agriculture. This quantity is in addition to a shipment of 1,400,000 gallons of Puerto Rican blackstrap which the department had made available for feeding purposes in September. Both shipments were bought by the Production and Marketing Administration from the Reconstruction Finance Corporation.

Bismuth Inventory Restrictions Tightened

Bismuth metal, and bismuth alloys containing more than 50 percent of bismuth have been placed under a 30-day, or practicable minimum working inventory restriction. The action was taken by amendment to Priorities Regulation No. 32, the inventory regulation, issued by the Civilian Production Administration. The cause was the scarcity which has made it necessary more closely to control the distribution of bismuth metal and its alloys.

Labor Relations

Mitchell M. Shipman
Labor-Management Consultant

More Requirements of the Wage and Hour Law

A salient feature of the wage and hour law is its overtime provision (section 7). That this part of the law has given employers most trouble appears to be indicated, not only by the preponderance of court decisions and departmental rulings and interpretations involving one phase or another of the overtime section, but also by the further fact that probably the largest portion of the $13,000,000 fund which has been recovered by the wage and hour division during the latest annual period was got from employers in violation of the overtime provisions.

In some respects, the overtime requirements of the act are quite simple; while in others, they are most ambiguous and uncertain, requiring much clarification. Reduced to its essentials, section 7 prohibits an employer from working his employees beyond forty hours (the present maximum) in a workweek, unless the employee is paid an overtime premium of at least one-and-one-half times his "regular" rate for all hours worked over forty. Although this overtime section is referred to as the "Maximum Hours" provision, it does not, however, fix any maximum number of hours that an employee may work in a workweek. An employer may work his employee beyond forty hours, the only requirement being that he pay a minimum premium of time and one-half for all such overtime hours. Thus, what the act really does is to set up a penalty of a minimum of an additional one-half time as a means of discouraging overtime work beyond forty hours.

The problems arising under this overtime section of the law have been many and varied. Some have been subject to such sharp disagreement as to necessitate appeals to and decisions by the Supreme Court of the United

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Inch Pipelines Hearing November 19

The surplus property committee of the house will hold a hearing November 19 on the proposed disposition on the government big and little inch pipelines. These lines recently were offered for sale or lease by the War Assets Administration.

OPD Price Index

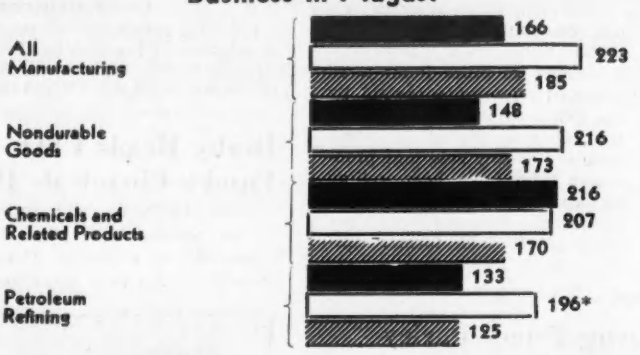
The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

Oct. 31, 1946	Oct. 24, 1946	Nov. 2, 1945
147.1	**144.2**	**133.5**

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

The official unceiling of prices exerted a substantial influence in the markets for chemicals, oils, and drugs last week. Quotations on scarce materials, especially fats and oils, reflected the grasping of the opportunity for which many had long been waiting. But, there was more restraint than could have been expected. Most sellers know that aversion toward high prices is steadily increasing, and they look to long-term objectives.

Business in August



Petroleum Chemicals Price Ceilings Removed

Petroleum products, which were decontrolled July 1 by Congressional action, have been interpreted to include all petroleum chemicals, the Office of Price Administration has announced.

The petroleum chemicals that are automatically decontrolled retroactively effective as of July 1, include synthetic ethyl alcohol, denatured and undenatured, as this product is manufactured predominantly by petroleum refiners as that term is now defined. Not affected by the interpretation is fermentation ethyl alcohol.

Some of the other petroleum chemicals that are also decontrolled as a result of the interpretation are:—petroleum cresylic acid, petroleum sulphonates, petroleum sulphonic acids, phthallic anhydride from xylene, toluol, xylol, isopropyl alcohol, isopropyl acetate, secondary butyl alcohol, secondary butyl acetate, synthetic ethyl acetate, methyl ethyl ketone, methyl propyl ketone, methyl isobutyl ketone, mercaptans, acetic acid (made from petroleum hydrocarbons), acetic anhydride (made from petroleum hydrocarbons), thiophene, 3-methyl thiophene, 3-methyl thiophene, 2-methyl thiophene, 2-acetyl thiophene (acetothienone) and tertiary butyl alcohol.

Soda Silicate Spot Prices Announced

The Philadelphia Quartz Company, Philadelphia, Pa., has announced, effective November 4, its spot market prices, f.o.b. works, 41 degree sodium silicate, in tankcars, 80 cents per 100 pounds, with a differential for carloads in returnable drums of 20 cents per 100 pounds over the tankcar price; solid silicate, in bulk, $40 per net ton; sodium metasilicate, in bags, carloads, $3 per 100 pounds; sodium sesquisilicate, in bags, carloads, $3.50 per 100 pounds. For both grades in barrels or metal drums, when available, add 40 cents per 100 pounds.

GR-S Synthetic Rubber Available for Export

GR-S, the general purpose synthetic rubber, and GR-S latex are again available for sale for export, according to the rubber division of the Civilian Production Administration.

The export control was lifted as the result of an agreement reached last month whereby the United States will receive more than 200,000 tons of natural rubber during the fourth quarter of 1946 and the first quarter of 1947.

OPA Releases Meat Byproducts for Drugs

OPD Washington Bureau

Edible byproducts of livestock slaughter when sold for uses other than as food were decontrolled October 25 by the Office of Price Administration in response to the demands of the pharmaceutical industry.

When meats were decontrolled on orders from President Truman, the relief was granted by OPA only to meat products sold for food. Consequently pharmaceutical manufacturers were unable to obtain the byproducts needed for pharmaceutical products since these were all channeled into the food markets.

Bids Wanted

Alum, black, 7,500 pounds, District of Columbia Government (Washington, D. C.) schedule 9167, November 5.

Automobile oil, City of Cleveland, O., resolution No. 1327-46, November 8.

Cleaning compound, 471,600 pounds, Army Air Forces (Dayton, Ohio) invitation 153, November 15; vapor, 200,000 pounds, Army Ordnance Department (Metuchen, N. J.) invitation 56, November 13.

Detergent, laundry, 4,650 pounds, District of Columbia Government (Washington, D. C.) schedule 9162, November 12.

Fuel oil and kerosene, as required from January 1 through June 30, 1947, Treasury Department (Washington, D. C.) invitation 9FO-9355-R, November 13.

Linseed oil, 1,700 gallons, Treasury Department (Marietta, Ga.) invitation 06-3570, November 6.

Linseed replacement oil, 968 gallons, Treasury Department (Marietta, Ga.) invitation 06-3570, November 6.

Paint, enamel, 11,200 gallons, OCT. Procurement Branch, invitation 50, November 12: 306 gallons, Army Engineer Office (Buffalo, N. Y.) invitation 15, November 14; various tpes, 7,098 gallons, Treasury Department (Marietta, Ga.) invitation 06-3570, November 6; 5,075 gallons, Treasury Department (San Francisco, Calif.) invitation SF-3394-47, November 7.

Late Market News

Petroleum Naphthas, with the exception of aromatic naphthas, were advanced ½c. per gallon by one producer effective November 1. Another producer announced that effective November 2 prices for lacquer diluent, mineral spirits, rubber solvent, and V.M.&P. naphtha would advance ½c. per gallon in tankcars in the New York-New Jersey-East Coast area.

Tallow market scored an additional advance of 2c. per pound on Friday. Sales of extra were reported at 19¾c. per pound, loose. Special, at 19⅝c. per pound, loose. The grease market was strong and prices were nominal at 19½c. for yellow, and of house grease at 19⅜c. per pound, loose.

Vanilla Beans closed the week higher in price. Bourbons stood at $8.50 to $8.75 per pound; Mexican, whole, $11.50 to $12.50, and cuts, $10.50 to $10.75.

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Human Relations In Employment Discussed

Pittsburgh, Oct. 31, 1946

Management's lag in recognition of its duty and ability to solve its employment problems and thereby promote better living conditions for everybody was criticized from various angles in the conference on human relations conducted by the Society for the Advancement of Management here today. Representatives of management and of labor, as well as educational workers in the field of human relations, were agreed that there was no logical reason why employer and employee could not see eye-to-eye on the fundamentals of their relations, and should not approach the settlement, even the avoidance, of disputes with full recognition of their common objective.

One industrial vice-president went so far in his plea for better recognition and greater freedom for personnel administration as to say that the main reason for the existence of labor unions and the concomitant strife was lack of proper management. The general tenet was that management should give to its human resources at best as much attention, and as good, as it gives to materials.

The handicaps laid by government upon the solution of human problems in business were enumerated by Albert L. Kress, consultant in management and industrial relations. After telling of the legislation and regulation which made government a labor organization board, he declared that employment relations should be taken out of politics; that it should be made plain that there is no right to strike against the public welfare; that conciliation and mediation should be handled by an impartial agency; that employment problems are State, not Federal, in character. Declaring that industrial peace must come from the hearts of men, he urged that management and labor sit together in calm, frank, fair endeavors to resolve their differences.

Basic study of human behavior is essential to the setting up of a theory of human relations, which will provide grounds similar to those on which the physical scientist works—this was the position of E. Wight Bakke, director of the Labor-Management Center at Yale. A pattern for diagnosis is badly needed, he said, a means whereby those who succeed—and they are in the majority—and those who fail can transmit to others the reasons for their results, so that these may be applied to the fundamental question:—How shall I act in order that others will react as I desire?

Professor Bakke told in outline of the research which he is conducting at Yale in the influential factors in human behavior. This has disclosed that the structure of living changes and tensions arise as individual goals are shifted, as social resources become inadequate, as correlation lags, and as threats to stability of status are seen or fancied. So, it is necessary to appraise all such influences and they must be seen through the worker's eye.

Labor unionism, said Clinton S. Golden, adviser and consultant to the United Steelworkers of America, is a protest against injustices, oftentimes growing out of misunderstanding, but sometimes seen as threats to economic democracy. Management has the greater capacity to effect improvement; it also has the greater respon-

—*Continued on page* 45

Glidden Names Lathe Lecithin Sales Head

J. H. Lathe, formerly Western sales manager of the chemical and pigment division, the Glidden Company, paint manufacturers, Cleveland, Ohio, has been appointed director of the company's newly formed lecithin sales division which will extensively market its soybean product. Mr. Lathe joined the company in 1919.

Household Dyes Hearing November 18

Federal Trade Commission has postponed until November 18th the trade practice rules hearing for manufacturers of household dyes, scheduled for November 7.

Oil Chemists Discuss Research Results

Technical sessions on developments in soap and glycerin, and discussion on industrial uses of fats and oils featured the twentieth Fall meeting of the American Oil Chemists' Society, held at the Edgewater Beach hotel, Chicago, October 30-31 and November 1.

President S. O. Sorensen, of Archer-Daniels-Midland Company, Minneapolis, presided over the meeting, which was attended by more than 600 members. A total of forty papers was presented at the technical sessions.

W. Haward Hunt and M. H. Neustadt, of the Department of Agriculture, presented a paper on "Rapid and Improved Methods of Soap Analysis." It stated that as the result of a large-scale program of testing various types of soap purchased by government agencies for compliance with contract specifications, particularly during the war years, certain improvements and simplifications in the usual methods of testing soap hve been devised. The modified methods were designed primarily according to the paper, to expedite inspections and thereby to avoid delays in the delivery of soap to the government, although in applying such methods recourse must always be made to official methods in instances where any doubt exists concerning compliance with any specification. The details of the modified procedures were presented with the

—*Continued on page 80*

IEFC Fats, Oils Quotas Recommended

OPD Washington Bureau

The IEFC announced the recommended allocation of fats, oils and oil-bearing materials for the calendar year 1946. Previously only interim recommendations were made to facilitate shipping arrangements and provide for urgent current needs. The recommended allocation of fats, oils and oil-bearing materials covers only imports and exports. In making this recommendation, however, the IEFC took into account stated requirements of all claimant countries and all available supplies including indigenous production of each country.

Quantities recommended for import by the various claimants during 1946 from all sources are as follows:—recommended allocation of fats and oils for 1946, United Kingdom, 818,100 tons; United States, 354,000 tons; Canada, 80,300 tons; Belgium, 108,400 tons; Denmark, 25,810 tons; France, 316,400 tons; French North Africa, 41,900 tons; Netherlands, 101,900 tons; Norway, 49,650 tons; UNRRA, 165,090 tons; Military Relief—U. S. Zones, 7,200 tons; Military Relief-Southeast Asia Command, 4,400 tons; Eire, 7,770 tons; Portugal, 29,540 tons; Spain, 16,620 tons; Sweden, 31,750 tons; Switzerland, 33,070 tons; Finland, 6,910 tons; Australia, 15,900 tons; New Zealand, 2,020 tons; India, 37,000 tons; Ceylon, 300 tons; South Africa, 37,600 tons; Middle East, 17,000 tons; Cuba, 40,400 tons; Mexico, 25,400 tons; other Latin American countries, 22,400 tons; U.S.S.R., 12,900 tons and other countries, 43,700 tons.

Compressed Gases Pool On Tankcars Approved

Producers, suppliers and distributors of anhydrous ammonia, liquefied petroleum gas and chlorine have been authorized by the Civilian Production Administration to enter into pooling arrangements for the common use of high-pressure tankcars and storage facilities to ease the strain on transportation. Operation of such pools, which are to be subject to approval of CPA, have been granted exemption from antitrust laws under certificate 216 issued simultaneously with the authorization contained in Pr 3.

Glass Container Control Revoked

OPD Washington Bureau

All controls over the manufacture and design of glass containers have been removed by the Civilian Production Administration. Action was taken by revoking order L-103, which had restricted glass bottle and jar shapes and sizes to the patterns made in 1942.

Drug Conferences In Washington Set

OPD Washington Bureau

The combined pharmaceutical committee will meet November 11-12 at the Statler hotel, Washington, D. C. The settlement of the hotel strike also has cleared the way for the scheduled meeting of the drug trade conference for November 8, to be held at the Statler.

Drugs Use Rule Modified by FDA

OPD Washington Bureau

The Food and Drug Administration has modified its regulations relating to directions for use of drugs and devices under Section 502 (F) (1) to require that distributors as well as the manufacturers and packers comply with the requirements of the law in providing adequate direction for use on the label. The revised section reads as follows:—

"Directions for use may be inadequate by reason (among other reasons) of omission, in whole or in part, or incorrect specification of:—

"(1) Directions for use in all conditions for which drug or device is prescribed, recommended or suggested in its labeling, or in its advertising disseminated or sponsored by or on behalf of its manufacturer, packer, or distributor, or in such other conditions, if any, for which such drug or device is commonly and effectively used."

Camouflage Paint Sticks Offered by WAA

Nine million sticks of surplus camouflage paint containing critical fats and waxes are being offered for sale to normal trade channels by the War Assets Administration on a sealed bid basis. The sticks contain the following valuable basic ingredients:—carnauba, 3 percent; lanolin 10 percent, and castor oil, 25 percent. Other ingredients are dimethylphthalate and colorings.

Gorgas Medal Presented

Brigadier General Raymond A. Kelser, U. S. Army (Ret.), is shown at the recent meeting of the association of Military Surgeons receiving the Gorgas Medal, sponsored by Wyeth Inc., Philadelphia, for his work in eradicating rinderpest, a disease of cattle, in the Philippine Islands. Left to right are Colonel James M. Phalen, secretary of the association; Frank F. Law, Wyeth vice-president; Colonel Irvin Abell, president of the association, and Dr. Kelser.

Trade Sale Paints Price Rules Modified

OPD Washington Bureau

Manufacturers of trade sale paints who sell in quantities of less than one gallon have been authorized to increase their ceilings on these products by the proportionate amount of the increase previously permitted on sales of paints in larger quantities. The action was announced by the OPA in amendment 97 to order A-1 under MPR 188 which became effective November 2.

The agency said that when it granted the higher ceilings on quantities in excess of a gallon it inadvertently left out the provision extending similar relief to smaller sales. The amendment permits the rounding off of the resulting adjusted maximum price to the nearest one cent.

Fertilizer Conference Scheduled for Nov. 11

OPD Washington Bureau

The fertilizer industry has been invited to a conference at Raleigh, N. C., November 8, by E. S. Coltrane, president of the newly-formed association of the American Fertilizer Control Officials to discuss the provision of the proposed model state fertilizer control law to be submitted to the various state legislatures.

The conference has been called in order to give industry an opportunity to record its views on the measure in advance of a meeting of the American Society of Agronomy, scheduled for November 17 at Omaha, Neb., where the bill will be discussed. The Raleigh meeting will be held in the board room of the N. C. State Department of Agriculture at 10 a.m. and all members of the industry have been asked to attend.

Appointment of six members of a seven-man States Relations Committee authorized by the association. The seventh member will be named at a later date.

Under the constitution of the association, duties of the States Relations Committee "shall be to encourage and foster proper relations between the states in uniform laws, registration and labeling fertilizers, uniform and effective standards, regulations, and other matters toward uniform and effective fertilizer control."

The six men appointed to serve on the committee are:—S. B. Randle, state chemist, New Brunswick, N. J.; John B. Smith, state chemist, Agricultural Experiment Station, Kingston, R. I.; George H. Marsh, director, division of Agricultural Chemistry, State Department of Agriculture, Montgomery, Ala.; Bruce H. Poundstone, director, Feed and Fertilizer Control, Agricultural Experiment Station, Lexington, Ky.; Paul J. Ijams, state chemist, State Department of Agriculture, Topeka, Kans.; and W. B. Griem, state chemist, State Department of Agriculture. Madison, Wis.

Atomic Energy Board Appointed by President

OPD Washington Bureau

Atomic energy was removed from military control last week when President Truman appointed a five-man Atomic Energy Commission headed by David E. Lillienthal, since 1941 chairman of the Tennessee Valley Authority.

As the civilian commission's first official act it requested the War Department to continue operation of the Manhattan project until the new group had paved the way for carrying out "its very great responsibility."

The other four members of the commission are Dr. Robert F. Bacher, Cornell physicist,, who is scientific consultant to Bernard M. Baruch on the United Nations Atomic Commission; William W. Waymack, editor of the Des Moines "Register"; Sumner T. Pike, member of the securities commission, and Rear Admiral Lewis L. Strauss, retired, member of the Army-Navy munitions board.

G.R. Clapp Named TVA Chairman

OPD Washington Bureau

Gordon R. Clapp has been named chairman of the Tennessee Valley Authority, succeeding David E. Lilienthal who was appointed chairman of the Atomic Energy Commission October 28.

Mr. Clapp has been TVA's general manager since October, 1939, and prior to that time served as director of personnel. His term of service, subject to confirmation of the senate, will run until May, 1954.

Desalting Kits Sale Being Held by WAA

War Assets Administration has announced that a "freeze" on the sale of surplus Government owned desalting kits has been lifted, and that 235,000 of the kits are now being offered for sale on a sealed bid basis through WAA Regional Offices in Boston, Nashville, New York, San Francisco and Tulsa. The kits were designed for the use of the armed services to make salt water drinkable.

Washington Talks It Over

The OPD Observer

There are indications that CPA may soon begin tightening up on its allocations of materials for the veterans' housing program on the grounds that requests for these materials are being inflated, setting the stage for a black market.

Recent meetings of various industry advisory committees with CPA officials have tended toward discussions of whether CPA has not been too liberal in setting aside materials for veterans' housing merely on the sayso of the National Housing Administration as to requirements of the program. CPA officials themselves admit that a closer examination of the requirements program is warranted, but have hesitated to do much about it in view of the emphasis being placed by OWMR on veterans' housing construction.

A particular case in point, that is cited as evidence of inflated demands, is that of steel. More steel has been allotted for veterans' housing, it is felt, than can possibly be consumed in the time specified.

Oil in Government

A typical example of why industry favors and demands reorganization of the government along intelligent lines can be seed in the survey just completed by Secretary of the Interior Krug in connection with the President's directive on coordination and unifying of the government oil policy.

Mr. Krug has found that some thirty-one separate agencies of the government have an interest in the oil situation in one way or another. While it is true that some of them have only relatively minor functions and responsibilities, it does not make things easier for the harried visitor to Washington for information on oil to have the subject spread all over the lot.

Besides the Department of Interior, these are the other agencies that have their fingers in oil:—Departments of Agriculture, Commerce, Justice, Labor, Navy, State, Treasury, and War; National Advisory Committee for Aeronautics, Bureau of the Budget, CPA, Export-Import Bank, Federal Communications Commission, Federal Power Commission, FTC, ICC, Joint Chiefs of Staff, NLRB, Library of Congress, Maritime Commission, National Archives, ODT, OPA, OSRC, Public Roads Administration, RFC, SEC, Tariff Commission, TVA, and WAA.

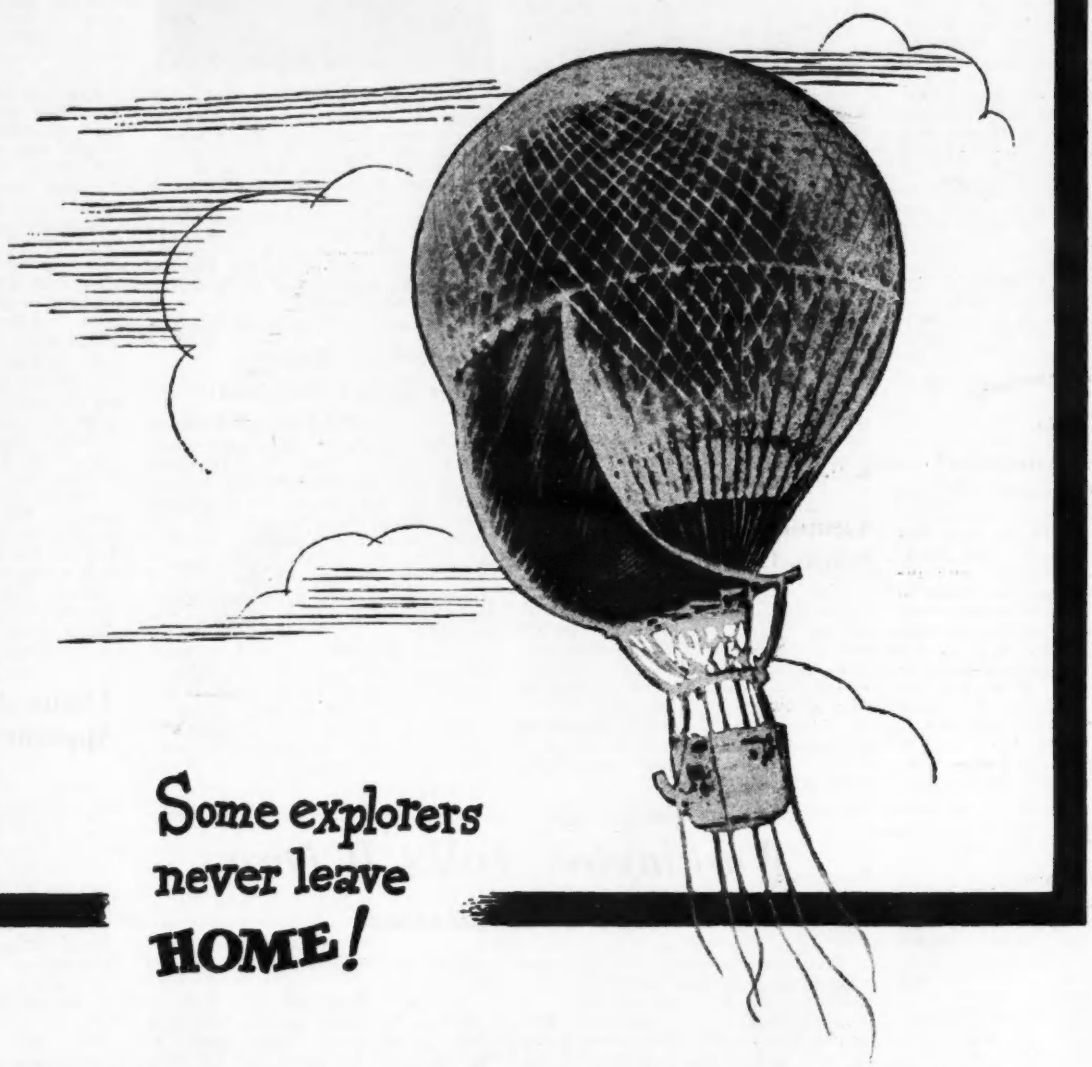
Wage-Adjustment Data

The Department of Labor has just put out a new booklet analyzing the various types of so-called "escalator clauses" found in union agreements on file in the department's industrial relations branch. It should prove of considerable value to unions and employers discussing the problems involved in adjusting wages to changes in the cost of living.

The report discusses and illustrates through actual clauses the use of permissive and automatic wage-adjustment provisions. Examples are given of clauses which combine both automatic and permissive features, as well as cost of living bonuses. It also contrasts the effects of a flat cents-per-hour as against a percentage wage adjustment on workers at different wage levels, and provides a listing of the cities for which the bureau prepares consumers' price indexes which are the most frequently used standards to judge price rises.

Copies of the report can be obtained on request by writing to the

—*Continued on page 40*



Some explorers never leave HOME!

From Spitzbergen on a July day in 1897 Salomon Andrée and two companions sailed off into the Polar unknown in a balloon. The balloon was a new type. One novel device was the sail that served as a rudder. But the outstanding feature was a coating on the balloon fabric that prevented the gas from escaping. It was nitrocellulose!

Today, nitrocellulose lacquer is a product of universal application—made possible by the development of Butanol and its derivatives by the "explorers who never leave home."

CSC pioneered in this development—pioneered the large-scale production of Butanol by bacterial fermentation process. As versatile as the butyl derivatives are today as solvents and plasticizers for nitrocellulose, new applications are being discovered—through continued CSC exploration.

COMMERCIAL SOLVENTS
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Industrial Application Of Chemicals

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Betahydroxyethylamide of Mixed Coconut-Oil Fatty Acids

Chemical—Starting point (Brit. 541-682) in making emulsifying agents of low melting-point by condensing with aliphatic aldehydes.

Starting point in making water-soluble detergents, wetting and foaming agents resistant to acids and alkalies, and insensitive to calcium and magnesium, by condensing with aliphatic aldehydes and sulphonating.

4-Butylanilino-2-methylpyridin Butylbromide

Dye—Starting point (U.S. 2234723 and 2234724) in making orange or yellow dyestuffs for cellulose derivatives, silk, wool, or cotton by coupling with diazotised arylamines.

Butyl Betaisobutoxyisobutyrate

Adhesives—Plasticizer (U.S. 2128208) in adhesive compositions containing resins or cellulose derivatives.

Ceramic—Plasticizer (U.S. 2128208) in compositions, containing resins or cellulose derivatives, used as coatings for protecting and decorating ceramic products.

Chemical—Plasticizer (U.S. 2128208) for cellulose derivatives.

Cosmetic—Plasticizer (U.S. 2128208) in nail enamels and lacquers containing resins or cellulose derivatives as base material.

Electrical—Plasticizer (U.S. 2128208) in insulating compositions, containing resins or cellulose derivatives, used for covering wire and in making electrical machinery and equipment.

Glass—Plasticizer (U.S. 2128208) in compositions, containing resins or cellulose derivatives, used in the manufacture of nonscatterable glass and as coatings for protecting and decorating glassware.

Leather—Plasticizer (U.S. 2128208) in compositions, containing resins or cellulose derivatives, used in the manufacture of artificial leather and as coatings for protecting and decorating leather and leather goods.

Metal Fabrication—Plasticizer (U.S. 2128208) in coating compositions, containing resins or cellulose derivatives, used for protecting and decorating metallic articles.

Miscellaneous — Plasticizer (U.S. 2128208) in coating compositions, containing resins or cellulose derivatives, used for protecting and decorating articles of various compositions.

Paint, Varnish, and Lacquer—Plasticizer (U.S. 2128208) in paints, varnishes, lacquers, enamels, and dopes containing resins or cellulose derivatives.

Paper—Plasticizer (U.S. 2128208) in compositions, containing resins or cellulose derivatives, used in the manufacture of coated papers and as coatings for protecting and decorating articles made of paper or pulp.

Photographic—Plasticizer (U.S. 2128208) in making films from cellulose derivatives.

Plastics—Plasticizer (U.S. 2128208) in making laminated fiber products, molded articles, plastics from or containing resins or cellulose derivatives.

Resins—Plasticizer (U.S. 2128208) for resins.

Rubber—Plasticizer (U.S. 2128208) in compositions, containing resins or cellulose derivatives, used as coatings for protecting and decorating rubber goods.

Stone—Plasticizer (U.S. 2128208) in compositions, containing resins or cellulose derivatives, used as coatings for decorating and protecting artificial and natural stone.

Textile—Plasticizer (U.S. 2128208) in compositions, containing cellulose derivatives or resins, used in the manufacture of coated fabrics.

Wood—Plasticizer (U.S. 2128208) in compositions, containing resins or cellulose derivatives, used as protective and decorative coatings on woodwork.

Revives Chemists' Union

Dr. Marston T. Bogart, of Columbia University, president of the International Union of Chemists, announced last week that twenty-one nations will participate in the rebuilding of the organization whose activities were suspended during the war. Scientists of Germany and Japan have been excluded from membership. The fourteenth conference of the group will meet in London on July 21-24, 1947.

Motor Fuel from Farm Products Progressing

OPD Washington Bureau

Research on production of synthetic liquid motor fuels from farm residues has moved another step toward final evaluation, with Department of Agriculture scientists starting operation of a new semi-works plant at Peoria, Ill.

The new plant of the Bureau of Agricultural and Industrial Chemistry Synthetic Liquid Fuels Division is designed to handle enough residues to provide sufficient fermentable material for the production of 500 gallons of alcohol daily. This is the Bureau's contribution to the general research program, authorized by Congress in 1944, for the building of demonstration plants to produce liquid motor fuels from non-petroleum sources.

The experimental work in the new plant will accomplish two purposes. It will show maximum yields of alcohol, butanol and acetone, or isopropyl alcohol possible from a given tonnage of various agricultural residues, and the semi-works scale of operation will provide a basis for computing costs and determining the feasibility of commercial production.

The process used in the new plant, for producing fermentable sugars from which the liquid fuels are obtained, is an outgrowth of research at the Northern Regional Research Laboratory by Drs. E. C. Lathrop and J. W. Dunning. It will be six months or more before the semi-works plant will be in full operation, and a longer period before operating facts and figures will be available. From the farm waste materials, the plant will produce at capacity 2,000 pounds of glucose in 10 percent solution, 1,600 pounds of xylose in 15 percent solution, 200 pounds of furfural, and 1,000 pounds of liquid in an 8-hour day.

NWDA Sets Up Drug Job Evaluation Study

With a view to improving wholesale drug distribution throughout the nation, the executive committee of the National Wholesale Druggists' Association, has voted to establish a research fellowship in some university or college which would, for the first time, subject to investigation the more than fifty different types of jobs involved in drug wholesaling.

The study will be known as the NWDA fellowship on wholesale drug job classification and evaluation. It will be directed by Charles D. Doerr, vice-president of McKesson & Robbins Inc., New York, chairman of the NWDA committee on employer and employee relations. Mr. Doerr announced that the committee has not yet determined the college at which the fellowship will be established.

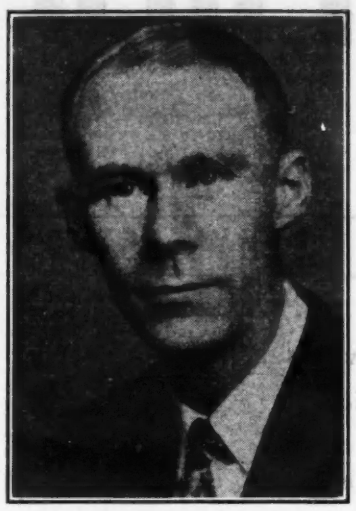
Mercury Cell Prints Available

OPD Washington Bureau

Chemical Alliance, Inc., still has remaining a few more blue print drawings of the German mercury chlorine cell, a magnesium fluorine cell and several other cells and processes of interest to the chemical industry, which are available for sale at $40 a set. Copies of the sets and drawings can be obtained from Chemical Alliance, Inc., 608 Woodward Building, Washington 5, D. C.

American Chemical Society Activities

Dr. Ralph H. Ball, assistant technical director of the plastics division of the Celanese Corporation of America, Newark, N. J., has been elected chairman of the American Chemical Society's paint, varnish and plastics division. He succeeds Dr. Adolph G.



Dr. Ralph H. Ball

Elm, of the New Jersey Zinc Company.

Other officers chosen by the division are:—Dr. Earl W. McMullen, of the Eagle-Picher Lead Company, Joplin, Mo., chairman-elect, and Dr. E. E. McSweeney, of the Battelle Memorial Institute, Columbus, Ohio, secretary - treasurer. The retiring chairman, Dr. Elm, was named to the division's executive committee, as were Dr. M. Van Loo, director of paint research of the Sherwin-Williams Company, Chicago, and Dr. A. W. Downes, of the Carbide & Carbon Chemicals Company, South Charleston, W. Va.

—Continued on page 48

Cosmetic Chemists To Meet December 6

The Society of Cosmetic Chemists will hold its annual meeting at the Savoy Plaza hotel, New York, on December 6. A feature of the meeting will be the presentation of the first honorary membership of the association to Dr. Dan Dahle in recognition of his achievements while chief of the Cosmetic section of the Food and Drug Administration.

Speakers at the meetings, and their subjects, will be Dr. Curt P. Wimmer, "Educational Requirements for Cosmetic Chemists"; Dr. A. F. Guiteras, "Evaluation of Efficacy and Safety of Cosmetics"; Dr. Louis Schwartz, "Diagnosis of Cosmetic Dermatoses"; Miss Ruth Boyle, "Operating a Cosmetic Clinic"; Dr. S. M. Peck, "Skin Pigmentation"; F. C. Reinshield, "The Importance of the Light Source in Testing Cosmetics," and Dr. E. G. McDonough, "Mercaptans in Cosmetics."

Feed Research Council Formed

The Distillers Feed Research Council has been formed by the distilling industry to conduct research into better feeds for cattle and to educate farmers and feeders on the benefits of balanced feeding. Dr. Frank M. Shipman is chairman of the council.

Chemical Productivity Definite Index Sought

OPD Washington Bureau

Representatives of business, labor, academic organizations and the government attended a two-day conference here October 28-29 on ways and means of improving statistical data for the measurement of productivity and decided to place its studies on a permanent basis, the details of which are to be worked out by an executive committee headed by Solomon Fabricant of the National Bureau of Economic Research.

The conference was sponsored jointly by the Bureau of Labor Statistics of the Department of Labor and the Division of Statistical Standards of the Bureau of the Budget and was called because of the current importance now attached to the subject of productivity and the general dissatisfaction expressed in many quarters to the present methods of its measurement.

Both industry and labor voiced their criticism of government indexes of productivity on the grounds that the figures do not accurately reflect the true state of productivity and fail to constitute the aid they should give in collective bargaining negotiations. Government officials conceded the shortcomings of their statistics and the need for their continuing study and improvement.

In connection with the chemical industry, plans are being made for a study of productivity in terms of manhours for a selected list of heavy and organic chemicals for 1939 through 1945. Preliminary field visits with chemical producers are planned by department statisticians and the drawing up of a questionnaire which the producers will be asked to fill out.

In a summary of the results of the meeting prepared by Samuel H. Thompson of the Department of Commerce and read at the closing session, he found that the following areas of general agreement had been reached:—

That more different kinds of measurements are needed in addition to the concept of productivity in terms of manhours which is now the chief reliance of economists in measuring productivity. In particular monetary measures such as payroll costs and the value of output are needed.

That clarification is essential as to what the standards of measurement mean and what they are useful for.

That more industrial firms must keep more systematic records on which indexes can be based.

That it must be recognized that there are many factors besides efficiency that make for rising or declining productivity, one being the state of management efficiency.

Galvanizers Group To Meet Nov. 22-23

The Galvanizers Committee, sponsored by the American Zinc Institute, will hold its fall meeting November 22-23 at the Stevens hotel, Chicago. The meeting, restricted to committee members, will feature an inspection trip at the galvanizing plant of the Inland Steel Company at Indiana Harbor.

Association Meetings

American Association of Textile Chemists and Colorists, Statler hotel, Boston, December 12-15.

American Council of Commercial Laboratories, Palmer house, Chicago, December 2-3.

American Fair Trade Council, Waldorf-Astoria hotel, New York, November 26.

American Institute Chemical Engineers, Philadelphia, November 17-20.

American Management Association Conference, Palmer house, Chicago, November 14-15.

American Pharmaceutical Manufacturers' Association, midyear meeting, Waldorf-Astoria hotel, New York, December 9-11.

Industrial Hygiene Foundation, Mellon Institute, Pittsburgh, November 6.

National Drug Trade Conference, Statler hotel, Washington, D. C., November 8.

National Fertilizer Association, Atlanta-Biltmore hotel, Atlanta, November 11-13.

National Foreign Trade Council, Waldorf-Astoria hotel, New York, November 11-13.

National Paint, Varnish and Lacquer Association, Traymore hotel, Atlantic City, N. J., November 6-8.

Society of Cosmetic chemists, Savoy Plaza hotel, New York, December 6.

Synthetic Organical Chemical Manufacturers Association, Roosevelt hotel, New York, December 17.

Textile Research Institute, Waldorf-Astoria hotel, New York, November 8.

2,4-D Formulations

SODIUM SALT • METHYL ESTER • N-AMYL ESTER • MORPHOLINE SALT

This advertisement is addressed to the executives of a relatively few companies.

It is addressed to those who see a great future in 2, 4-D formulated concentrates—ready for dilution by the user.

We would like to talk to those executives who have not only the desire but the marketing facilities to distribute one or more of these products.

There are many sales opportunities in the broad fields of agriculture, where a general purpose weed killer such as a sodium salt formulation is most economical and effective. For more resistant types of growth the Ester formulations are indicated. Baker formulations have been designed to cover both markets.

If your company is primarily sales minded—feeling that others who have a trained research staff and up-to-the-minute manufacturing facilities are better fitted to keep your product up to date and at less cost—your inquiry is invited.

Appointments with our Sales and Technical executives will be arranged at mutual convenience. Address: Organic Chemical Sales Division, J. T. Baker Chemical Co., *Executive Offices,* Phillipsburg, N. J.

Baker's Chemicals

C. P. ANALYZED • FINE • INDUSTRIAL

Current Market Quotations Chemicals and Related Materials

October 31, 1946

Unless otherwise indicated, quotations are first-hands on large lots, f.o.b. New York. Price changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

All matters under this heading fully protected by copyright.

A

Acacia (see Gum, Arabic).
Acetaldehyde, 99%, dms., 55 gals., works..lb. .11 - —
5 and 10 gals., works....lb. .14 - —
Acetaldol (see Aldol).
Acetamide, CP, fib. dms., 5,000 lbs. a year, works..lb. .36 - —
smaller lots, works.....lb. .38 - .70
tech., fib. dms., 5,000 lbs. a year, works..lb. .28 - —
smaller lots, works.....lb. .30 - .80
Acetanilide, tech., cryst., bbls.lb. .29 - .31
powd., bbls.....lb. .27 - .29
USP, cryst., bbls.....lb. .36 - .37
kgs.....lb. .37 - .39
powd., bbls.....lb. .34 - .36
kgs.....lb. .35 - .37
Acetic anhydride, dms., c.l., frt. alld..lb. .11½- —
l.c.l., frt. alld.....lb. .13 - —
Acetoacetanilide, bbls., dms....lb. .527 - .7000
Acetone, CP, dms., c.l., dlvd..lb. .08 - —
l.c.l., dlvd..lb. .08½- —
tanks, dlvd.....lb. .07 - —
Methyl (see M).
Acetonitrile, dms., c.l., works.lb. .35 - —
l.c.l., works.....lb. .40 - —
5-gal. lots, works.....lb. .45 - —
less than 5-gal. lots, works.lb. .50 - —
Acetophenetidin, USP, bbls., kgs., 1,000-lb. lots..lb. 1.00 - —
dms.....lb. 1.08 - 1.10
Acetophenone, cns., dms.....lb. 1.50 - 1.75
Acetyl chloride, cbys., works.lb. .60 - —
Acid, abietic, doms., c.l., wks..lb. .07½- —
Acetic,[1] com'l or redist., 28% bbls..100 lbs. 3.38 - 3.66
50%, bbls.....100 lbs. 5.58 - 5.83
70%, bbls.....100 lbs. 6.68 - 6.96
80%, bbls.....100 lbs. 7.47 - 7.72
99.5%, bbls.....100 lbs. 9.15 - 9.40
glacial, nat., C.P., dms., works..100 lbs.12.50 -13.25
99.5%, bls.....100 lbs. 9.15 - 9.40
tanks ..... 100 lbs. 6.93 - 7.25
synth., tech., bbls., works, 100 lbs. 9.15 - 9.40
dms., works.....100 lbs. 9.25 - 9.75
tanks, works.....100 lbs. 6.93 - 7.25
USP, dms., works.100 lbs.10.50 -11.00
pure, 30%, bbls.....100 lbs. 4.41 - 4.69
36%, bbls.....100 lbs. 4.86 - 5.11
60%, bbls.....100 lbs. 7.60 - 7.85
80%, bbls.....100 lbs. 9.25 - 9.51
USP, 36%, cbys.....lb. .06 - .10

Acetic acid price ranges above are for c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride).
Acetylsalicylic,[2] special, USP, bbls., makers, primary distrib., point of shipm't, 100-lb. lots..lb. .45 - —
smaller lots.....lb. .46 - .59
standard USP., fine cryst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis. lb. .40 - .54

Freight equal'd, shipment identical quantity over standard routes, from N Y. City, Phila., Midland, Mich., Chicago and St. Louis.

Aminoacetic, USP cryst., powd., bbls., frt. adjusted.lb. 1.25 - 1.30
Anthranilic, resub., bbls....lb. 1.20 - 1.25
tech., bbls.....lb. .95 - —
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs....lb. .20 - .22
Ascorbic,[1] USP, dms., 500-kilo lots..kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —
bots., kilo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —
Battery, cbys., c.l., E. works.. 100 lbs. 1.60 - —
l.c.l., E. works.....100 lbs. 1.95 - 2.35
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
999 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up..lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,000 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59
Betanaphthol, bbls., works. lb. .95 - —
Boric, tech., 99.5% cryst. (same as prices for powder). gran., bgs., c.l., frt. alld.. ton.99.90 - —
ton lots, ex whse..ton.111.00 - —
less than ton lots, ex whse..ton.116.00 - —
bbls., c.l., frt. alld..ton.109.00 - —
ton lots, ex whse..ton.121.00 - —
less than ton lots, ex whse..ton.126.00 - —
bulk, frt. alld.....ton. 95.50 - —
powd., bgs., c.l., frt. alld. ton.104.00 - —
ton lots, ex whse..ton.116.00 - —
less than ton lots, ex whse..ton.121.00 - —
bbls., c.l., frt. alld..ton.114.00 - —
ton lots, ex whse..ton.126.00 - —
less than ton lots, ex whse..ton.131.00 - —
USP $25 per ton higher.
Butyric, 99%, dms., c.l., works. lb. .29 - —
l.c.l., same basis.....lb. .30 - —
Broener's, bb'.....lb. 1.11 - —
Acid, cacodylic, bots. .....lb.13.50 -14.50
Camphoric, cns. .....lb. No stocks
Caprylic, 99%, dms.....lb. No stocks
Capric, tech., ret. dms.....lb. No stocks
Castor oil, split, ret. dms...lb.
Chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works .....lb. .03½- .04½
tanks, works .....lb. .02½- —
Chromic, 99½-99¾%, dms., c.l., lb. .17 - —
l.c.l. .....lb. .17½- .19
Cinnamic, refd., bots.....lb. 3.00 - 3.25
Citric, anhyd., gran., dms., c.l..lb. .22½- —
l.c.l., 10,000 lbs. 1 ship't. lb. .23 - —
smaller lots, bbls. .....lb. .23 - —
dms. .....lb. .23½- .24½
kgs. .....lb. .24 - —
USP, cryst., gran., bbls., c.l., lb. .20 - —
l.c.l., 10,000 lbs., 1 ship't. lb. .20½- —
smaller lots, bbls. .....lb. .21 - —
dms. .....lb. .23 - .24
kgs. .....lb. .21½- —
powdered citric acid, ½c. higher.
Cleve's, bbls. .....lb. .65 - —
Coconut oil, dist., dms.....lb. No prices
Corn oil, s.d., dms., c.l., wks. lb. No prices
Cottonseed oil, s.d., dms., c.l. lb. No prices
tanks, dlvd. .....lb. No prices
Cresylic dom. coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald..gal. .81 - .96
l.c.l., same basis....gal. .83 - .96
tanks .....gal. .75 - .90
Petroleum, heavy grade (247°-298°), dms., 20, Cal. ref..gal. .490 - —
Sewaren, N. J., ref. gal. .616 - —
1-19, Cal., ref....gal. .510 - —
Sewaren, N. J., ref. gal. .636 - —
tanks, dlvd.....gal. .586 - —
light grade (200°-246°). tanks, Cal. ref..gal. .690 - —
medium grade (220°-246°), dms., 20 Cal. ref.gal. .50 - —
Sewaren, N J., ref. gal. .636 - —
1-19, Cal. ref.....gal. .570 - —
Sewaren, N. J., ref. gal. .636 - —
tanks., dlvd. .....gal. .646 - —
Cretonic, bbls., Canadian, wks. lb. .25 - —
Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works.....lb. .85 - .95
Diethylbarbituric (see Barbital).
F (see Acid, monosulphonic).
Formic, 85%, cbys., c.l., wks.lb. .10 - —
l.c.l., works.....lb. .10½- .11
90%, cbys., c.l., works....lb. .10½- —
l.c.l., works.....lb. .11 - .11½
Fumaric, tech., bbls., dms..lb. .27 - .31
Gallic, NF V, bbls.....lb. 1.27 - 1.30
fib. dms.....lb. 1.32 - —
technical, bbls.....lb. 1.10 - 1.15
Gamma, bbls.....lb. .85 - —
Gluconic, tech., 50%, bbls....lb. .12 - —
dmjn. .....lb. .21 - .23
kgs. .....lb. .14 - .15
Glutamic hydrochloride, dms., lb. 2.00 - 2.40
Glycolic (see Acid, hydroxyacetic).
H, bbls.....lb. .43½- .45
Hydriodic, 45-47%, cbys.....lb. 2.42 - 2.44
5-lb. bots.....lb. 2.57 - —
57%, bots.....lb. 2.90 - —
Hydrobromic, medicinal, 48%, cbys., dlvd. E..lb. .48 - —
tech., 48%, cbys., same basis. lb. .45 - —
34%, cbys., same basis.....lb. .35 - .37
Hydrochloric (see Acid, Muriatic).
Hydrocyanic, cyls., works...lb. .80 - 1.00
NF, dilute, 2%, 5-lb. bots..lb. .30 - .40
Hydrofluoric, anhyd., cyls., wks. lb. .19 - .19½
tanks, works.....lb. .16 - —
30%, rubber dms., works..lb. .09 - .09
48%, rubber dms., works..lb. .12 - —
52%, rubber dms., works..lb. .12½- —
60%, rubber dms., works..lb. .13½- —
Hydrofluosilicic, 30-35%, bbls.lb. .08 - .09
Hydroxyacetic, 70% tech., bbls., non-return, Phila..lb. .084 - —
tanks, Belle, W. Va., acid basis..lb. .085 - —
Hypophosphorous, USP, djns., lb. .75 - .77
Lactic, edible, 50%, cbys., 20 or more..lb. .12½- —
smaller lots.....lb. .13 - .13½
80%, bbls., 5 or less....lb. .24½- .24¾
plastic grade, 50%, bbls., cbys., 20 or more..lb. .14½- —
10 or less.....lb. .14¾- .15¼
80%, bbls., cbys., 5 or less, lb. .26 - .26¼
tech., dark, 22%, bbls., c.l., works..100 lbs. 2.90 - —
l.c.l., works....100 lbs. 3.15 - —
cbys., works.....100 lbs. 4.15 - —
44%, bbls., c.l., works.... 100 lbs. 6.30 - —
l.c.l., bbls., works.... 100 lbs. 6.55 - —
cbys., works.....100 lbs. 7.55 - —
light, 22%, bbls., c.l., works, 100 lbs. 3.90 - —
l.c.l., works....100 lbs. 4.15 - —
cbys., works.....100 lbs. 5.15 - —
44%, bbls., c.l., works.... 100 lbs. 7.30 - —
l.c.l., works....100 lbs. 7.55 - —
cbys., works.....100 lbs. 8.55 - —
USP XII, 85%, cbys.....lb. .54 - .57
USP VIII, 75%, cbys.....lb. .52 - .55
Acid, Laurent's, bbls.....lb. .40 - —
Lauric, dist., 85%, dms.....lb. No prices
60%, dms. .....lb. No prices
Linseed oil, light, dms.....lb. No prices
Maleic, powd., dms.....lb. .30 - —
Anhydride (see M).
Malic, powd., kgs.....lb. .47 - —
Mandelic, USP, dms., 1,000-lb. lots..lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.30
Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit.....lb. .0085- .009
Molybdic,[1] kgs., works.....lb. .95 - 1.10
Monochloracetic, tech., flakes, 96-97%, dms..lb. .16½- —
purified, flake, 99%, dms...lb. .20 - —
Monosulphonic, bbls.....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - —
l.c.l., E. works....100 lbs. 1.75 - 2.45
tanks, works.....100 lbs. 1.05 - —
20°, cbys., c.l., E. works.... 100 lbs. 1.75 - —
tanks, E. works.....ton.22.00 - —
22°, cbys., c.l., E. works.... 100 lbs. 2.25 - —
tanks, E. works.....ton.32.00 - —
CP, USP, consumers, cbys extra..lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —
Myristic, dist., dms..... No stocks
Naphthenic, 210-220 acidity, dms., extra, works..lb. .10¾- —
tanks, works.....lb. .09 - —
230-245 acidity, dms., extra, works..lb. .12¾- —
tanks, works.....lb. .12 - —
Nicotinic, USP, dms., works... kilo. 6.00 - 6.30
Nicotinic amide (see Nicotinamide).
Nitric, 36°, cbys., c.l., E. works. 100 lbs. 5.00 - —
l.c.l., 2's, E. works.100 lbs. 5.25 - —
10 to 24, works..100 lbs. 5.35 - —
1 to 9, works....100 lbs. 5.95 - —
38°, cbys., c.l., E. works.... 100 lbs. 5.50 - —
Western works...100 lbs. 5.75 - —
40°, cbys., c.l., E. works.... 100 lbs. 6.00 - —
42°, cbys., c.l., E. works.... 100 lbs. 6.50 - —
CP, USP, consumers, cbys. extra..lb. .13 - —
7-lb. bots., cs., extra...lb. .15 - —
dealers, cbys. extra.....lb. .11½- —
7-lb. bots., cs., extra...lb. .13½- —
Oleic (see Oil, Red).
Oleum (see Acid, sulphuric, fuming).
Oxalic,[1] bbls., c.l., works....lb. .11¼- .11¾
10,000 lbs.....lb. .11½- .12
smaller lots.....lb. .12½- .13
Palm oil,[2] white, dist., dms..lb. No stocks
Para-aminobenzoic, cns.....lb. 1.40 - —
Paranitrobenzoic, cns.....lb. .72 - —
Paratoluidinmetasulphonic, bbls., works..lb. .80 - —
Peanut oil, s.d., tanks, works. lb. No prices
Phenylacetic, bots. .....lb. 1.60 - 1.85
Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald..100 lbs. 4.00 - 4.25
cbys., c.l., works, frt. equald..100 lbs. 4.35 - 4.60
l.c.l., works, frt. alld.. 100 lbs. 5.25 - 7.25
tankwagon, dlvd. N Y., Phila. Met. area..100 lbs. 4.00 - —
75%, bbls., c.l., works, frt. equald..100 lbs. 4.75 - 5.00
cbys., c.l., works, frt. equald..100 lbs. 5.10 - 5.35
l.c.l., frt. alld.....100 lbs. 7.00 - 9.50
tanks, works, frt. equald., 100 lbs. 4.00 - 4.25
tankwagon, dlvd. N. Y., Phila. Met. area..100 lbs. 4.75 - —
USP, 100-lb. cbys., c.l.....lb. .10½- —
10 cbys. to c.l.....lb. .11½- —
2 to 9 cbys.....lb. .12 - —
single cbys. .....lb. .13 - —
70-lb. cbys. .....lb. .10½- —
25 cbys. to c.l.....lb. .11½- —
5 to 24 cbys.....lb. .12 - —
1 to 4 cbys.....lb. .13 - —
dilut., 10%, cbys., djns..lb. .07 - .07½
Picramic, kgs. .....lb. .65 - .70
Picric, bbls. .....lb. .35 - —
Propionic,[1] synth., pure, dms., works..lb. .19½- —
tanks, works .....lb. .18½- —
Pyrogallic, tech., bbls.....lb. 1.45 - 2.06
USP, cryst., dms.....lb. 2.10 - 2.15
resub., dms. .....lb. 2.60 - 2.65
Pyroligneous, dms., ex whse, gal. .29 - —
Ricinoleic, com'l split (see Acid, castor oil, split).
Salicylic,[1] tech., bbls., c.l...lb. .26 - —
100 lbs. to c.l.....lb. .33 - —
smaller lots.....lb. .34 - .42
USP, bbls., c.l.....lb. .28 - —
100 lbs. to c.l.....lb. .35 - —
smaller lots .....lb. .36 - .44
Sebasic, tech., dms., c.l., works, lb. No stocks
Soybean oil,[1] s.d., dms., works. lb. No prices
tanks, works..... No prices
Stearic,[1] double pressed, bgs., c.l., dlvd. E. Rockies..lb. No prices
W. of Rockies.....lb. No prices
Texas and Okla., dlvd. lb. No prices
single pressed, bgs., c.l., dlvd. E. of Rockies..lb. No prices
W. of Rockies.....lb. No prices
Texas and Okla., dlvd. lb. No prices
triple pressed, bgs., c.l., dlvd. E. of Rockies..lb. No prices
W. of Rockies.....lb. No prices
Texas and Okla., dlvd. lb. No prices
Stearic acid l.c.l. prices are:—Ton lots, ¼c. per lb. higher; less than ton lots, 1c. higher.
Succinic, bbls. .....lb. .75 - —
Sulphanilic, CP, bots., works.lb. 1.60 - 1.63
tech., dms., works.....lb. .17 - —
Sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.25 - —
l.c.l. .....100 lbs. 1.50 - 2.20
tanks, E. works.....ton.13.00 - —
66°, cbys., c.l., E. works.. 100 lbs. 1.50 - —
tanks, E. works.....ton.16.50 - —
98°, tanks, works.....ton.17.50 - —
Acid, sulphuric, CP, USP, consumers cbys., extra..lb. .06 - —
9-lb. bots., cs. extra...lb. .10 - —
dealers, cbys. extra....lb. .06½- —
9-lb. bots., cs. extra...lb. .08½- —
fuming, 20%, tanks, E. works. ton.19.50 - —
Tannic, tech., bbls., dms....lb. .71 - .72
USP, fluffy, bbls., 1,000 lbs.. lb. 1.33 - —
smaller lots.....lb. 1.35 - 1.90
powder, bbls., 1,000 lbs..lb. 1.13 - —
smaller lots.....lb. 1.15 - —
Tartaric, USP, cryst., gran., powd., bbls., 10,000 lbs., 1 ship't..lb. .54½- —
smaller lots, bbls..lb. .55 - —
kgs. .....lb. .58½- —
Thioglycolic, bbls., cbys., basis 100%..lb. 2.00 - 3.00
Tobias, bbls.....lb. .55 - .60
Trichloroacetic, bots.....lb. 2.00 - 2.50
Tungstic,[1] CP, 100-lb. pkgs..lb. 2.94 - 3.10
pure, 100-lb. kgs.....lb. 2.86 - —
Aconite leaves, bls.....lb. 1.10 - 1.40
Root, bls.....lb. 1.20 - 1.35
Aconitine, amorph., bots.....oz.23.00 -25.00
15-gr. vials.....vial. 1.00 - —
cryst., bots.....oz.42.00 -46.00
15-gr. vials.....vial. 1.60 - —
Acrylonitrile, dms., c.l., works. lb. .26 - —
l.c.l., works.....lb. .25½- —
tanks, works.....lb. .25 - —
Adeps lanae[1] USP, anhyd., cosmetic, dms., works.lb. .28 - .30
pharmaceutical, dms., works. lb. .26 - .28
Agar .....lb. 3.50 - —
San Diego, Cal.....lb. 3.00 - —
Agaric, white, bls.....lb. 2.85 - 2.90
Albumen, blood, dark (see Blood, soluble).
light, dms., Chicago.....lb. .65 - .70
egg edible,[1,7] cryst., gran., bbls. lb. 1.81 - 1.91
powd., bbls.....lb. 1.86 - 1.96
tech., cryst., bbls.....lb. 1.65 - 1.80
Alcohol, allyl, dms., c.l., dlvd.lb. .21 - —
l.c.l., dlvd.....lb. .21½- —
tankcars, dlvd.....lb. .20 - —
Amyl ex pentane, dms., c.l., frt. alld., E. of Miss. R. lb. .141 - —
l.c.l., frt. alld.....lb. .151 - —
tanks, frt. alld.....lb. .131 - —
(see also Fusel oil, ref.).
Benzyl, cns.....lb. .90 - —
dms. .....lb. .65 - .80
Butyl, normal,[1] ferment. Ill., Ind. prod., dms., c.l., frt. alld..lb. .261 - —
l.c.l., frt. alld. E....lb. .286 - —
tanks, frt. alld. E....lb. .252 - —
tankwagon, frt. alld..lb. .256 - —
other production, dms., c.l., frt. alld. E..lb. .226 - —
l.c.l., frt. alld. E....lb. .231 - —
tanks, frt. alld. E....lb. .216 - —
synthetic, dms., c.l., frt. alld. E..lb. .13½- —
l.c.l., frt. alld. E.....lb. .16 - —
tanks, frt. alld. E.....lb. .14½- —
Normal butyl alcohol prices in West, ½c. per lb. higher.
secondary, dms., c.l., dlvd..lb. .09¾- —
l.c.l., dlvd.....lb. .10 - —
tanks, dlvd.....lb. .08½- —
tertiary, denat., dms., c.l..lb. .12¾- —
l.c.l., dms.....lb. .13 - —
tanks .....lb. .11 - —
Capryl, dms., c.l., works....lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16 - —
Cetyl, dom., CP., fiber ctns., 1,000 lbs..lb. 1.75 - 1.80
smaller lots.....lb. 1.95 - 2.20
Cinnamic, bots.....lb. 3.00 - 3.25
Denatured,[1,7] CD14, dms., c.l., works, E..gal. .613 - —
l.c.l., works, E.....gal .633 - .653
tanks, E., dlvd.....gal. .543 - —
Tankcar sales require written authorization by Alcohol Tax Unit.
SD1, 190 pf., dms., c.l., E. works..gal. .612 - —
l.c.l., works, E.....gal. .632 - .652
tanks, E. works.....gal. .542 - —
Anhydrous 5c. per gal. higher.
SD2B, dms., c.l., wks., E.gal. .60¾- —
l.c.l., works, E.....gal. .63¼- .65¼
tanks, E. works.....gal. .53¼- —
SD23G, dms., c.l., works.gal. .652 - —
l.c.l., works.....gal. .672 - —
tanks, works.....gal. .582 - —
SD23H, dms., c.l.....gal. .61 - —
l.c.l., works, E.....gal. .63 - .65¼
tanks, E. works.....gal. .54 - —
SD29, denatured, with acetaldehyde, dms., c.l., E. works. gal. .62 - —
l.c.l., works, E.....gal. .64½- .66¾
tanks, E. works.....gal. .55 - —
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those for SD2B plus 1½c. per gal. denaturing charge.
Special solvent, dms., c.l., works, E..gal. .63 - —
l.c.l., works, E.....gal. .65 - .68
tanks, E. works.....gal. .56 - —
Tankcar sales require written authorization by Alcohol Tax Unit.
Diacetone, acetone-free, dms., c.l., dlvd..lb. .11¼- .14¼
l.c.l., dlvd.....lb. .12 - .15
tanks, dlvd.....lb. .10¼- .12¾
tech., dms., c.l., dlvd.....lb. .11 - .13¾
l.c.l., dlvd.....lb. .11¼- .14
tanks, dlvd.....lb. .10 - .12¾

Controls on Materials

Applications of CPA, OPA and WFA regulations to materials listed in this section are indicated by superior figures as follows:—

[1]—Specific price ceiling

[2]—Price agreement (sellers with OPA)

[3]—General Limitation Order

[4]—General Preference Order

[5]—Conservation Order

[6]—Allocation

[7]—War Food Order

Alcohol, ethyl, 190 pf., dms., c.l. works ..gal. 17.72½- —
l.c.l., works ..gal. 17.76 -17.79
tanks ..gal. 17.65½- —
absolute, dms., c.l., works ..gal. 18.67½- —
l.c.l., works ..gal. 18.71 -18.74
tanks ..gal. 18.69½- —
Ethylhexyl, dms., c.l., works ..lb. .25 - —
l.c.l., works ..lb. .26 - —
tanks, works ..lb. .24 - —
Furfuryl, tech., cns., works ..lb. .35 - —
dms., c.l., works ..lb. .22½- —
l.c.l., works ..lb. .25 - —
tanks, works ..lb. .19 - —
Isoamyl (see Carbinol, isobutyl).
Isobutyl, refd., dms., works ..lb. .0650- —
tanks, works ..lb. .0760- —
Isopropyl, refd., 91%, dms., incl., c.l., divd ..gal. .40½- .41
l.c.l., divd ..gal. .43½- .44
tanks, divd ..gal. .34 - .34½
90%, dms., incl., c.l., divd .. gal. .44 - —
l.c.l., divd ..gal. .47 - —
tanks, divd ..gal. .37½- —
Methyl (see Methanol).
Methylamyl (see Carbinol methylisobutyl).
Octyl, perfumer's grade, bots ..lb. 4.25 - —
Phenylethyl, dms ..lb. 2.80 - 2.75
Polyvinyl, type A, fiber-pack, Niagara Falls ..lb. .65 - .70
type B, fiber-pack, same basis. lb. .60 - .68
Propyl, normal, dms., works ..gal. .67 - —
smaller containers, works. gal. .82 - —
tanks, works ..gal. .60 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia ..lb. .55 - —
dms., c.l., Waverly, N. Y. ..lb. .40 - —
l.c.l., same basis ..lb. .50 - —
Aldol, dms., works ..lb. .13 - .15
denaturing grade, dms ..gal. 1.20 - —
Alstrie root, bgs ..lb. 2.25 - 2.30
Algarobilla, c.l., ex dock, long ton .80.00 -83.50
Algarobilla price based on ocean frt. at $12 and $1 insurance per long ton.
Algin, bbls., fib. dms ..lb. .76 - 1.00
Alizarin (see Red, alizarin).
Alkanet, root, bgs ..lb. .85 - .90
Allspice, Mexican, futures, bgs, lb. .23 - .23½
Allyl bromide, cbys., 5,000 lbs., works ..lb. .90 - —
smaller lots, works ..lb. 1.05 - 1.10
Chloride, dms., c.l., divd ..lb. .13½- —
l.c.l., divd ..lb. .14 - —
tanks, divd ..lb. .12½- —
Aloe, Cape, cs ..lb. .42 - .43
Curacao, kgs ..lb. .42 - .43
Socotrine, kgs ..lb. .47 - .49
Aloin, bbls., dms., kgs ..lb. 4.50 - 4.80
Alphanaphthol, buls ..lb. .52 - —
Alphanaphthylamine, bbls ..lb. .32 - —
Alphanaphthylthiourea, fib. dms., works, frt. alld ..lb. 4.00 - 4.40
Alphapicoline, ref. dms., works, frt. equald ..lb. .23½- .23¾
Alphapinene, from gum turpentine, dms., c.l., wks ..gal. 1.02½- —
l.c.l., works ..gal. 1.04½- —
tanks, works ..gal. .99½- —
from steam-distilled wood turpentine, tanks, works ..gal. .71¾- —
Alphaterpineol, dms., c.l., works ..lb. .1340- —
l.c.l., works ..lb. .1380- —
tanks, works ..lb. .1200- —
Alphacoccepherol, amp ..gram. 1.00 - 1.10
Althea root, NF, peeled, bls ..lb. .43 - .45
Alum, ammonia, bcrnt. U.S.P. bbls., kgs ..lb. .16 - .18
gran., bbls., works ..100 lbs. 4.00 - —
divd., N. Y., Phil ..100 lbs. 4.00 - —
lump, bbls., works ..100 lbs. 4.25 - —
divd., N. Y., Phil ..100 lbs. 4.25 - —
powd., bbls., works ..100 lbs. 4.40 - —
divd., N. Y., Phil ..100 lbs. 4.40 - —
Alum, potash, gran., bbls., works ..100 lbs. 4.25 - —
divd., N. Y., Phil ..100 lbs. 4.25 - —
lump, bbls., works ..100 lbs. 4.50 - —
divd., N. Y., Phil ..100 lbs. 4.50 - —
powd., bbls., works ..100 lbs. 4.65 - —
divd., N. Y., Phil ..100 lbs. 4.65 - —
Potash-chrome, bbls ..lb. .12¼- .13
Soda, bbls., c.l., works ..100 lbs. 3.25 - —
l.c.l., divd ..100 lbs. 4.25 - 5.00
Alumina, classified, grade, grd., kgs., works ..lb. .55 - .67
top grade, ground, kgs., works. lb. .60 - .67
unclassified, ground, kgs., works ..lb. .10½- .40
Acetate, basic solution, 24%, bbls., l.c.l., works ..lb. .09½- .10
20%, bbls., l.c.l., works ..lb. .08½- .09
Chloride, anhyd., com'l, dms., c.l., works ..lb. .08 - .11
l.c.l., works ..lb. .09 - .12
cryst., com'l, dms., c.l., works. lb. .06 - —
l.c.l., works ..lb. .06½- .06¾
solution, 32 deg., cryst., c.l., works ..lb. .02¾- —
l.c.l., works ..lb. .03½- —
Fluoride, tech., bbls ..lb. .25 - —
Formate, solution, 12-20° Be, bbls., c.l., works, f.o.b. equaled Phila. and Chl ..lb. .09½- —
l.c.l., works, same basis. lb. .10 - —
Hydrate, heavy, bgs., c.l., works ..lb. .024 - .031
l.c.l., works ..lb. .035 - .040
light, bgs., divd ..lb. .14½- —
bbls., divd ..lb. .15 - —
Hydroxide, gel tech., min. 15% Al (OH)$_3$, dms., 10,000 lbs. or more, f.o.b. ship't point ..lb. .06 - .06½
*ms lots, same basis ..lb. .06½- .06½
smaller lots, same basis. lb. .06¾- .04
Alumina hydroxide, tech., 9-9½% Al_2O_3, fib. dms., works ..lb. .17¾- —
contract, works ..lb. .16¾- —
14-15% Al_2O_3, fib. dms., works ..lb. .20¾- —
contract, works ..lb. .19¾- —
dried, USP XII, fib. dms., works ..lb. .76 - —
contract, works ..lb. .75 - —
powder, tech. (see Alumina hydrate).
USP IX, bbls., dms ..lb. .15 - .17
Laurate, precip., bbls ..lb. .25 - .30
Naphthenate, 1.7% Al, 50-gal. dms., works ..lb. .19 - —
Oleate, dms., contract ..lb. .24½- —
Resinate, precip., dms ..lb. .18½- —
Stearate, precip., ctn., c.l ..lb. .23 - —
l.c.l. ..lb. .24 - —
Sulphate, com'l, bgs., c.l., works, frt. equald ..100 lbs. 1.15 - 1.20
l.c.l., works, frt. equald .. 100 lbs. 1.40 - 1.50
bbls., c.l., works, frt. equald. 100 lbs. 1.35 - 1.40
l.c.l., works, frt. equald. 100 lbs. 1.60 - 1.70
iron-free, bgs., c.l., works. 100 lbs. 1.75 - —
l.c.l., works ..100 lbs. 2.00 - —
Trihydrate, heavy (see Alumina hydrate).
Aluminum, 98-99%, c.l ..lb. .15 - —
l.c.l. ..lb. .15 - .16
paste, lining, extra fine, 200-lb. dms ..lb. .56 - .60
ink, 150-lb. dms ..lb. .71 - —
standard, 200-lb. dms ..lb. .53 - —
powder, lining, extra fine, 150-lb. dms ..lb. .93 - —
litho, 150-lb. dms ..lb. .60 - —
standard, 200-lb. dms ..lb. .62 - —
rubber comp., 200-lb. dms ..lb. .42 - —
unpolished, stand., dms ..lb. .35 - —
varnish, stand., 300-lb. dms .. lb. .42 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. f 1,500 to 4,999 lbs., 3c. for 5,000 to 20,000 lbs., and 4c. for 20,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Ambergris, gray, tins ..oz. 8.75 -12.00
Aminoethylpropanol, cns., dms., works ..lb. .50 - .60
Aminopyrine, bots., cms ..lb. 4.00 - 4.40
Ammonia acetate, reagent, crystals, bbls ..lb. .34 - —
purified, bbls ..lb. .52 - —
Anhydrous, fertilizer, tankcars, works, frt. equald ..ton. 59.00 - —
pure, cyls ..lb. .14½- —
refrigeration, tanks, works ... ton. 61.50 - —
Aqua, 26°, cbys ..lb. .05¼- —
dms., c.l ..lb. .02¾- —
l.c.l. ..lb. .02½- —
tanks, works (NH_3 content). ton. 65.00 - —
Benzoate, USP, dms., kgs., 4,000 lbs., up, frt. alld ..lb. .43 - —
smaller lots, frt. alld ..lb. .44 - .47
Biborate, gran,, bbls., N. Y. or Chl ..lb. .1515- —
Bicarbonate, dms., c.l ..lb. .0564- —
Bichromate, bbls ..lb. .23 - .25
Bifluoride, bbls ..lb. .15 - .15¼
Borate, gran., bbls., kgs ..lb. .1060- —
powd., bbls., kgs ..lb. .1130- —
Bromide, gran., NF, bbls ..lb. .28 - —
dms. ..lb. .29 - —
Powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms ..lb. .03¼- .03¾
cns. ..lb. .14½- .17½
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms., kgs .. lb. .13 - .15
Citrate, dibasic, bbls ..lb. .75 - —
dms. ..lb. .80 - .85
Fluoride, bbls. ..lb. No stocks
Hydroxide (see Ammonia, aqua).
Hypophosphite, NF, dms ..lb. 1.25 - 1.27
jars ..lb. 1.30 - 1.35
Iodide, NF, bots ..lb. 3.71 - —
jars ..lb. 3.95 - —
Linoleate, 80%, anhyd., bbls ..lb. .12 - —
Molybdate,[2] c.p., cryst., kgs ..lb. 1.26 - 1.28
fine cryst., bbls., kgs ..lb. .84 - .87
purified, dms ..lb. 1.10 - 1.12
Nitrate,[1] fertiliser grade, Canadian, 32.5% nitrogen, bgs., same N unit price, delivered, as Ammonia sulphate, bgs., c.l., shipping point ..ton. 32.60 - —
bulk, same basis ..ton. 46.00 - —
tech., bgs., works ..100 lbs. 4.25 - 4.30
bbls., works ..100 lbs. 4.55 - —
Nitrate - limestone, 20.5% N. bgs., Hopewell, Va ..ton. 32.50 - —
Oleate, dms ..lb. .14 - —
Oxalate, fine gran., bbls ..lb. .23 - —
dms. ..lb. .25 - .29
Perchlorate, kgs ..lb. No stocks
Persulphate, kgs ..lb. .25½- .25¾
Phosphate, dibasic, NF V, bbls., kgs ..lb. .37 - .39
tech., bgs., c.l., works ..lb. .07 - —
l.c.l., works ..lb. .07¾- —
monobasic, pure, bbls ..lb. .39 - .41
tech., bgs., c.l., works ..lb. .07 - —
l.c.l., works ..lb. .07¾- .08¼
Salicylate, NF, dms., kgs ..lb. 1.15 - 1.16
Silicofluoride, bbls ..lb. .15 - .16
Stearate, anhydrous, dms ..lb. .34 - —
paste, dms ..lb. .06½- —
Sulphamate, bbls., dms., works. lb. .18 - .20
Sulphate,[1] bulk, producing ovens ..ton. 30.00 - —
Sulphide, liquid, 40-45% basis 100%, dms., c.l., works ..lb. .09 - —
l.c.l., divd ..lb. .15 - —
tanks, divd ..lb. .07½- —
red, 46%, cbys., works ..lb. .06 - —
dms., works ..lb. .06 - —
yellow, 33%, cbys., works ..lb. .06 - —
dms., works ..lb. .06 - —
Sulphocyanide, CP, bbls ..lb. .55 - —
jars ..lb. .97 - —
tech., bbls ..lb. .17 - .19
Thiocyanate (see Ammonia sulphocyanide).
Thioglycollate, highly purified, 100% basis, bbls ..lb. 7.10 - 8.20
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bbls., c.l., works .... 100 lbs. 5.50 - 5.75
l.c.l., works ..100 lbs. 6.00 - 6.70
white, gran., bbls., c.l., works. 100 lbs. 4.45 - —
l.c.l., same basis ..100 lbs. 5.15 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., divd ..lb. .17 Nom.
l.c.l., divd ..lb. .17½ Nom.
tanks, divd ..lb. .16 Nom.
ex-pentane, dms., c.l., frt. alld. E. of Miss. R ..lb. .191 - —
l.c.l., same basis ..lb. .201 - —
tanks, same basis ..lb. .181 - —
Alcohol (see Alcohol, amyl).

SPENCER NITROGEN SOLUTIONS

LOW COST—HIGH ANALYSIS
FERTILIZER MIXING INGREDIENT

New SPENSOL by Spencer Chemical Company brings to the fertilizer industry a "closer than ever" certified analysis nitrogen solution for your mixing needs. SPENSOL service and supply from the Heart of America will bring to fertilizer mixers this new HI-NITROGEN product with outstanding quality for the manufacture of fertilizers.

National farm agencies are urging greater use of "high analysis" fertilizers to defeat soil depletion and maintain American Agricultural independence. Are you in the fertilizer picture with your fertilizer customer? The SUPPLY, SERVICE, and ECONOMY of SPENSOL is now available from

SPENCER CHEMICAL COMPANY'S PITTSBURG, KANSAS WORKS—ASK FOR SPENSOL

COMPOSITION OF SPENSOL (SPENCER NITROGEN SOLUTIONS)

	Ammonium Nitrate %	Anhydrous Ammonia %	Water %	Total Nitrogen %	Nitrate Nitrogen %	Ammonia Nitrogen %
SPENSOL A	65.0	21.7	13.3	40.6	11.36	29.24
SPENSOL B	55.5	26.0	18.5	40.8	9.62	31.18
SPENSOL C	66.8	16.6	16.6	37.0	11.65	25.35

Spencer Chemical COMPANY

FERTILIZER

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Works: Pittsburg, Kansas
• Manufacturers of HI-NITROGEN Fertilizer Products.

OPD—11-4-1946 11

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●

We have on hand for immediate delivery 300,000 pounds of Dihydric Alcohol.

This is a glycol having a molecular weight of about 2200. It has a viscosity of 1400 in Saybolt seconds at 100° F. It is a pale amber liquid resembling glycerine. It weighs 9.11 pounds per gallon; has a tacky consistency and a characteristic odor.

This Dihydric Alcohol finds extensive application as an emulsifier, as a detergent, and as a plasticizer. This is a water soluble product and can be asterified. Samples on request.

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To users of Dihydric Alcohol, we can furnish certain quantities of Propylene Glycol.

WILLIAM D. NEUBERG COMPANY

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Amyl butyrate, dms. lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works. lb. .07 - —
l.c.l., works. lb. .08 - —
tanks, works. lb. .06 - —
Ether, dms., c.l., works. lb. .095 - —
l.c.l., works. lb. .102 - —
tanks, works. lb. .085 - —
Nitrite, USP, bots. lb. 1.77 - 1.85
Mercaptan, dms., works. lb. 1.10 - —
Salicylate, bots. lb. .68 - .85
Stearate, dms., works. lb. .42 - .45½
Anethol, com'l, dms., works. lb. .657 - .685
NF, dms. lb. 2.00 - 2.85
Angelica dom. atropurpurea root, bls. lb. 1.30 - 1.40
imported, natural, bls. lb. 2.50 - 2.60
Angostura bark, bls. lb. .34 - .35
Anilin oil, dms., c.l., works, frt. alld. lb. .12 - —
l.c.l., works, frt. alld. lb. .13 - —
tanks, works, frt. alld. lb. .11 - —
Salt, dms., works. lb. .22 - .24
Anise, Argentine, bgs., afloat lb. .45 - .46
Argentine, futures lb. .46 - .47
Chinese, star lb. .21½- .22
Cyprus, bgs. lb. .45½- .46
Mexican, bgs. .49½ Nom.
Syrian, bgs., futures lb. .45 - .46
Turkish, bgs. No stocks
Anisic aldehyde, dms. lb. 2.75 - —
cns., bots. lb. 2.90 - 2.95
Annatto, paste, bxs. lb. .34 - .39
Seed, bgs. lb. .13½- .13¾
Anthracene, 80-85%, bbls., works. lb. .55 - —
90%, bbls., works. lb. .85 - —
Anthraquinone, 99.5%, bbls. lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys. lb. .17 - —
Metal,[1,4] bulk, c.l., works. lb. .14½- .17¼
Antimony, needle,[1,6] Bolivian, brown, 67%, cs. lb. .16½ Nom.
Chinese, black, 70%, cs. lb. .50 - .62
Oxide,[1,6] ceramic grade, bgs., c.l. lb. .17 - —
l.c.l. lb. .17½- —
paint grade, bgs., c.l. lb. .17 - —
l.c.l. lb. .17½- —
Salt,[1,6] 65%, bgs., c.l., divd. E. of Miss. River. lb. No stocks
Sulphide,[1,6] 65-70%, bbls., c.l., works. lb. .17 - —
l.c.l., works. lb. .17¼- —
Antipyrine, bbls., kgs., ton. lb. 2.00 - —
smaller lots. lb. 2.10 - 2.20
Apomorphine, bots. oz. 23.20 -23.70
Archil extract, bbls. lb. No stocks
Areca nuts, powd., bbls. lb. .17 - .18
Arecoline hydrobromide, bots. oz. 6.10 - 7.10
Argols, min. 70%, bgs., shipment port, 100 kilos (100% purity). 35.00 -36.00
Arnica flowers, bbls. lb. 1.60 Nom.
Arrowroot, powd., bgs., bbls. lb. .12 - .16
Arsenic, chloride (arsenous), bots. lb. 1.55 - —
Metal, lump, c.l. lb. No prices
Sulphide, yellow, bbls. lb. No stocks
Trioxide (see Acid, arsenous, and Arsenic, white).
White, powd., kgs., c.l. lb. .05 - —
l.c.l. lb. .05¾- —
Asafetida, cs. lb. .70 - .75
powd., bbls., dms. lb. .94 - .95
Asbestine (see Talc, N. Y., fibrous).
Asbestos, fiber,[1] 5D and 5K, bgs., c.l. (20 tons), Cana. mines. ton. 49.50 - —
5R, bgs., c.l. (20 tons), same basis. ton. 44.00 - —
6D, bgs., c.l. (30 tons), same basis. ton. 32.00 - —
7D, bgs., c.l., same basis. ton. 28.50 - —
Asbestos fiber, 7F, bgs., c.l., same basis. ton. 26.50 - —
7K, bgs., c.l., same basis. ton. 19.00 - —
7M, bgs., c.l., same basis. ton. 16.50 - —
7R, bgs., c.l., same basis. ton. 15.50 - —
Asphaltum, Barbados, Dunsellen, N. J. lb. .10½- —
California, dms., c.l. ton. 36.40 - —
l.c.l. ton. 41.40 - —
Cuba, A, bulk, c.l. ton. 60.00 - —
l.c.l. ton. 90.00 - —
B, bulk, c.l. ton. 38.50 - —
l.c.l. ton. 55.00 - —
Egyptian ton. No stocks
Gilsonite, brilliant black, selects, 340° F. fusing point, bgs., mines. ton. 30.00 -32.00
270-295° fusing point, bgs., seconds, 300-390° F. fusing point, not uniform, bgs., mines. ton. 25.50 - —
jet, ngs., ton lots, gross weight, Colo. mines. ton. 30.50 - —
Manjak, No. 10, crude, dms., works. lb. .05½- .12
process form, bgs., works. lb. .05¾- .12
jet, bgs., 2,000 lbs., gross weight, Colo. mines. ton. 30.50 - —
Mexican, refd., dms., f.o.b. Tampico, Mex. metric ton. 27.50 - —
South American, refd., dms., c.l., N. J. refy. ton. 22.00 -23.00
l.c.l., same basis. ton. 24.00 -25.00
tanks, same basis. ton. 15.00 - —
Atropine, bots. oz. 9.85 - —
Sulphate, bots. oz. 7.35 - —

B

Balm of Gilead buds, bgs. lb. 2.25 - 2.50
Barbasco root,[1] (see Cube root).
Barberry root bark, bgs. lb. .75 - .80
Barbital, dms. lb. 3.50 - 3.60
sodium, dms. lb. 3.75 - 3.85
Barium carbonate, natural, 90% through 200 mesh, bgs., c.l., works. ton. 43.00 - —
precip., bgs., c.l., works. ton. 60.00 -70.00
l.c.l., works ton. 65.00 -75.00
bbls., c.l., works ton. 65.00 -75.00
l.c.l., works ton. 70.00 -80.00
Chlorate, kgs., works lb. .27½- .31
Chloride, CP, cryst., bbls. lb. .25 - .27
pure, bbls., kgs. lb. .10 - .12
tech., cryst., bgs., c.l., works. ton. 73.00 - —
l.c.l., works ton. 75.00 - —
bbls., c.l., works ton. 75.00 - —
l.c.l., works ton. 80.00 - —
Dioxide, dms., c.l., works. lb. .10 - —
l.c.l., works lb. .12 - .13
Fluoride, bbls. lb. .18 Nom.
Hydrate, crystals, bbls. lb. .06½- .07½
Hydroxide, bbls., works. lb. .15 - .16
Iodide, bots. lb. 4.62 - 4.82
Monoxide (see Oxide).
Nitrate, bbls., c.l., works. lb. .09½- .11½
l.c.l., works lb. .10 - .11½
Oxide, dms., c.l., works. lb. .11½- .12
l.c.l., works lb. .14 - .15
grd. dms., l.c.l., works. lb. .15 - .17
Peroxide (see Dioxide).
Silicofluoride, bbls. lb. .17 - .19
Stearate, ctns., 1 ton up. lb. .34½- —
smaller lots. lb. .35½- —
Sulphate, tech. (see Barytes, and Blanc fixe).
X-ray, bbls. lb. .09¾- .10
kgs. lb. .12 - —
Barytes, air-floated, paper bgs., c.l., St. Louis. ton. 30.10 - —
l.c.l., same basis. ton. 31.10 - —
ex whse., N. Y. ton. 40.95 - —
Southern, off-color, bgs., mines. ton. 18.37 - —
95.75%, bgs., mines. ton. 18.80 -19.00
Ore, approx. 94% $BaSO_4$, bulk, mines. ton. 8.50 -11.50
Bauxite bulk, mines. ton. 7.00 -10.00
Bay leaves (see Laurel leaves).
Barberry bark, bgs. lb. .12 - .13
Belladonna leaves, bls. lb. 2.50 Nom.
Root, bls. lb. 2.50 Nom.
Bentonite, 200 mesh, bgs., works. ton. 11.00 - —
325 mesh, bgs., works. ton. 16.00 - —
Benzaldehyde, NF, dms. lb. .70 - 1.10
tech., cbys., dms. lb. .45 - .55
Benzene (see Benzol).
Benzidin base, bbls. lb. .70 - —
Benzocaine, cns. lb. 3.20 - 3.56
Benzol (benzene), pcre, nitration and 90%, dms., works, gal. .20 - —
tanks, E. of Omaha, frt. alld. gal. .15 - —
W. Coast, Minnequa, Colo. gal. .15 - —
Benzophenone, dms. lb. 1.15 - 1.20
Benzoyl chloride, cbys. lb. .25 - .28
Peroxide, pure, gran., fib. ctns., works. lb. .90 - 1.05
Benzyl acetate, f.f.c., cns. lb. .55 - .70
dms. lb. .55 - .60
Alcohol (see Alcohol, benzyl).
Chloride, tech., cbys., works, frt. equald. lb. .20 - —
refined, cbys. lb. .21 - —
Cinnamate, cns. lb. 4.00 - 4.35
Formate, cns. lb. 2.10 - 2.75
Propionate, bots. lb. 1.80 - 2.45
Salicylate, bots. lb. 1.80 - 1.85
Benzylidinacetone, bots. lb. 2.00 - 2.70
Benzylisoeugenol, bots. lb. 9.50 - —
Berberine bisulphate, cns. lb. No stocks
Hydrochloride, bots. lb. No stocks
Sulphate, cns. lb. No stocks
Berberis root, bls. lb. .90 - .95
Betanaphthol, resublimed, dms., works. lb. .55 - .60
tech., bbls., c.l., works. lb. .21 - —
l.c.l., works. lb. .23 - —
Benzoate, fib. dms., works. lb. 1.75 - —
Salicylate, dms. lb. 5.00 - —
Betanaphthylamine, tech., works. lb. .61 - —
Betapicoline, 90%, ret. dms., c.l., works. lb. 1.00 - —
l.c.l., works. lb. 1.85 - —
95%, dms., works. lb. 2.05 - —
98-99%, works. lb. 2.20 - —
Betagammapicoline, dms., c.l., works. lb. .23½- —
l.c.l., works. lb. .24½- —
Beth root, bls. lb. .45 - .50
Bismuth chloride, jars. lb. 2.85 - —
Citrate, USP VIII, jars. lb. 2.75 - —
Hydroxide, cns. lb. 3.35 - —
Metal, ton lots. lb. 1.60 - —
Nitrate, cryst., cns. lb. 1.30 - —
Oxychloride, cns., dms., kgs. lb. 3.10 - —
Subbenzoate, fib. dms. lb. 3.40 - —
Subcarbonate, USP, bbls. dms. lb. 1.50 - 2.07
X-ray, fib. dms. lb. 2.72 - —
Subgallate, NF, fib. dms. lb. 1.44 - 2.10
Subiodide, fib. dms. lb. 4.13 - —
Subnitrate, USP, powd., bbls., dms. lb. 1.31 - 1.54
Subsalicylate, USP, bbls., fib. dms. lb. 2.50 - —
Sulphocarbolate, fib. dms. lb. 3.65 - —
Bismuth-ammonia citrate, USP, powd., dms. lb. 3.40 - —
Black, acetylene, bgs., c.l., works. lb. .14 - —
l.c.l., works. lb. .18 - —
Bone 1A, bgs., bbls., c.l., frt. alld. dest. lb. .19 - —
1, bgs., bbls., c.l., same basis. lb. .15½- .16½
2 bgs., bbls., c.l., same basis. lb. .15 - .15½
3 bgs., bbls., c.l., same basis. lb. .14 - .14½
4, bgs., bbl., c.l., same basis. lb. .12 - .13
5, bgs., bbls., c.l., same basis. lb. .10½- .11
6, bgs., bbls., c.l., same basis. lb. .10½- .11
7, bgs., bbls., c.l., same basis. lb. .13½- .14
8, bgs., bbls., c.l., same basis. lb. .14½- .15
490A, bgs., bbls., c.l., same basis. lb. .08¼- —
457, bgs., bbls., c.l., same basis. lb. .11¾- —
Bone black l.c.l. prices are ¼c. higher than c.l. Pacific coast, ex dock, at whse., prices are 1½c. higher

General Chemical Research Presents

genetron* 101

—second in its new series of ALIPHATIC ORGANIC FLUORINE COMPOUNDS

genetron* 101
PHYSICAL PROPERTIES

Formula	$CH_3 \cdot CCIF_2$
Molecular Weight	101.51
Color	Colorless
Melting Point	—130.8° C
Boiling Point	—9.2° C
Density	1.194 at —10° C
Latent heat of vaporization	96 B.t.u./lb.

Vapor pressure (p.s.i. abs.):

—30° C	6.0
—10° C	14.7
10° C	31.2
30° C	59.0

Out of General Chemical's extensive fluorine research program in the field of organic chemistry comes *Genetron 101* . . . the second in a series of important aliphatic organic fluorine compounds.

This chlorinated derivative of ethylidine fluoride has a lower melting point and lower vapor pressures than the parent compound. Many of its applications are already under investigation by far-sighted manufacturers who recognize the industrial potentialities of *Genetron 101:* as a refrigerant . . . an aerosol dispersant in admixture with other Genetrons . . . a selective solvent . . . a dielectric . . . and as an intermediate in the preparation of various other organic chemicals.

The physical data here may suggest uses for this low boiling organic liquid which also merit your prompt investigation. For experimental samples, write General Chemical Company, Fluorine Division, 40 Rector Street, New York 6, N. Y.

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GENERAL CHEMICAL COMPANY
FOR AMERICAN INDUSTRY ©

Black, carbon, channel, compressed, beads, bulk, c.l., works..lb. .05½- —
bgs., c.l., works.....lb. .06½- —
l.c.l., works.....lb. .06½- —
dlvd. or whse.....lb. .0970- —
uncompressed, regular, bgs., c.l., works..lb. .06¼- —
bgs., ctns., l.c.l. dlvd. or whse..lb. .1030- —
Furnace, HMF, bgs., c.l., works..lb. .05 - —
ctns., l.c.l., whse.....lb. .07½- —
SRF, bgs., c.l., works..lb. .03½- —
ctns., l.c.l., whse.....lb. .06 - —
Thermatonic, bgs., c.l., works, La..lb. .04 - —
l.c.l., whse. Trenton, N. J. lb. .05½- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure, bbls., l.c.l., works..lb. .03½- —
Lamp, 1, ctns., c.l., works..lb. .05½- —
l.c.l., works.....lb. .09 - —
2, ctns., c.l., works.....lb. .10 - —
l.c.l., works.....lb. .11 - —
2A, ctns., c.l., works.....lb. .12 - —
l.c.l., works.....lb. .13½- —
3, ctns., c.l., works.....lb. .14½- —
l.c.l., works.....lb. .15½- —
4, ctns., c.l., works.....lb. .16½- —
l.c.l., works.....lb. .17½- —
5, ctns., c.l., works.....lb. .20 - —
l.c.l., works.....lb. .26 - —
6, ctns., c.l., works.....lb. .26½- —
l.c.l., works.....lb. .27½- —
7, ctns., c.l., works.....lb. .57½- —
l.c.l., works.....lb .58½- —
Mineral, vine type, bbls., l.c.l., works..lb. .04¾- —
Vine A, bbls.....lb. .04½- .05
B, bbls.....lb. .05¾- —
kegs .....lb. .06 - —
Black dyes (see Dyes).
Black huw root bark, bls.....lb. .82 - .84
Tree bark, bls.....lb. .35 - .40
Black Indian hemp root, bls..lb. .55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works..ton.60.00 - —
l.c.l., works.....ton.67.00 - —
direct process, bgs., c.l., works..ton.70.00 - —
bbls., c.l., works....ton.75.00 - —
l.c.l., works.....ton.80.00 - —
pulp, 66%, bbls., c.l., works, ton.40.00 - —
l.c.l., same basis....ton.40.50 - —
Bleaching powder,[3] dms., c.l., works..100 lbs. 2.50 - 2.10
l.c.l., works.....100 lbs. 2.75 - 2.80
Blood, dried, 16-16½% ammo., bgs..unit-ton.10.00 - —
high-grade, unground, 16-17% ammon., bulk, Chicago. unit-ton.10.50 - —
soluble, bgs., c.l., Chicago..lb. .13½- —
l.c.l., Chicago.....lb. .15 - .20
Bloodroot, bls.....lb. .65 - .60
Blue,[1] alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.75 - 1.90
toner, bbls., same basis....lb. .85 - .90
Celestial, bbls., same basis..lb. .10 - .12
Chinese, bbls., same basis..lb. .36 - —
Cobalt, genuine, bbls., same basis..lb. 4.90 - —
Imitation (see Blue, ultramarine).
Copper, phthalocyanin, full strength, bbls., same basis. lb. 3.50 - 3.75
50%, bbls., same basis..lb. 3.00 - —
green shade, bbls., same basis. lb. 4.50 - 4.90
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Milori, bbls., same basis....lb. .36 - —
Molybdated, Victoria, bbls., same basis..lb. 3.15 - —
Peacock, fugitive, 100% color strength, same basis..lb. .52 - —
permanent toner, green shade, molybdic, bbls., same basis. lb. 3.50 - —
tungstic .....lb. 4.00 - —
Potash, CP, bbls., same basis. lb. .45½- —
Prussian, bbls., same basis.lb. .36 - —
soluble, bbls., same basis.lb. .36 - —
Soda, CP, bronze, bbls., same basis..lb. .39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis. lb. .23 - .27
jobbing type, dry, bbls., same basis..lb. .12 - .13
regular types, dry or pulp, bbls., same basis..lb. .17 - .27
Victoria, toner, molybdic, bbls., lb. 3.15 - —
tungstic, bbls. .....lb. 3.30 - 3.55
ink toner, bbls., same basis. lb. 1.83 - —
synthetic vehicle, bbls., same basis..lb. 1.98 - —
Violet toner, molybdic, bbls., same basis..lb. 1.24 - —
tungstic, kgs., same basis..lb. 2.10 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c); Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher, Pac. Coast; Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Blues dyes are listed under Dyes.
Blue mass, NF, ens., tube....lb. 1.68 - 1.75
powd., bots., ens., dms.....lb. 1.61 - 1.75
Bluflag, root, bls.....lb. No stocks
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Bone, raw, bulk, Chicago....ton.57.00 -65.00
junk, bulk, same basis....ton.44.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works.. ton.50.00 - —
Chicago, works....ton.55.00 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works..ton.65.00 - —
Chicago, works....ton.70.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works. ton.45.00 - —
Chicago, works....ton.50.00 - —
Phosphate, defluorinated (see D.).
Precipitated (see Calcium phosphate tribasic precip.).
Bonset leaves, bls. .....lb. .16 - .17
Borage flowers, bls. .....lb. .60 - .62
Borax, tech., 99½% gran., bulk, c.l., frt. alld..ton.41.50 - —
bgs., c.l., frt. alld....ton.46.00 - —
ton lots, ex whse....ton.56.00 - —
less ton lots, ex whse.ton.61.00 - —
bbls., c.l., frt. alld....ton.56.00 - —
ton lots, ex whse....ton.66.00 - —
less ton lots, ex whse.ton.71.00 - —

Borax, tech., 99½%, gran., bgs., c.l., frt. alld..ton.50.00 - —
ton lots, ex whse....ton.61.00 - —
less ton lots, ex whse.ton.66.00 - —
bbls., c.l., frt. alld....ton.60.00 - —
ton lots, ex whse....ton.71.00 - —
less ton lots, ex whse.ton.76.00 - —
USP, $15 per ton higher.
Bordeaux mixt., dms., c.l., whse., works, frt. alld..lb. .11 - —
l.c.l., same basis.....lb. .11½- —
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., frt. alld. E. of Rockies..lb. .23 - —
single pkgs., same basis.lb. .28 - —
Brazilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - —
cbys. .....lb. 1.42 - —
Bromstyrol .....lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., 100-lb. cns., dms., works..lb. .50 - .60
gold, moulding, 100-lb. cans, dms., same basis..lb. .80 - 1.00
printing ink, 100-lb. cns., dms., same basis..lb. .95 - 1.10
radiator, 100-lb. cns., dms., same basis..lb. .60 - .65
Broomtop, bls.....lb. .24 - .25
Brown, iron-oxide, pure, precip., cks., works..lb. .12 - —
Metallic, bbls., c.l., works.lb. .02½- —
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, bbls., works..lb. .06½- .09
pap. bgs., c.l., same basis. lb. .0235- —
Italian type, bbls., works. lb. .06¾- .09¾

Brown, sienna, raw, American, bbls., works..lb. .04 - .10
Italian type, bbls., works. lb. .08 - .10
Umber, burnt, American, bbls., works..lb. .06¾- —
Italian-type, bbls., works.lb. .04¾- —
Turkey-type, bbls., c.l., Boston, Bethlehem, Easton, Pa.; N. Y..lb. .04¾- —
St. Louis, Chicago, Indianapolis, New Orleans..lb. .05¼- —
Minneapolis .....lb. .0335- —
Pittsburgh .....lb. .06 - —
Los Angeles.....lb. .05½- —
Portland, San Francisco, Seattle..lb. .05½- —
ex whse., Los Angeles. lb. .06½- —
Portland, San Francisco, Seattle..lb. .05¾- —
Vandyke, reg., bbls., works.lb. .09 - —
special, bbls., works.....lb. .12 - —
Brucine, cns., 100 ozs.....oz. .38 - .42
Sulphate, cns., 100 ozs.....oz. .32 - .34
Bryonia root, bls.....lb. .55 - .60
Buchu leaves, bls. .....lb. .80 - .85
Buckthorn bark, bls. .....lb. .45 - .48
Berries, bgs. .....lb. 1.00 - 1.10
Burdock root, bls.....lb. .55 - .65
Burgundy pitch, dom., dms...lb. .14 - .16
Butane,[1] indust., tanks, Group 3. gal. .06½- —
Butyl acetate, normal,[1] ferment, Ill., Ind., prod., dms., c.l., frt. alld. E. of Miss. R. lb. .234 - —
l.c.l., same basis..lb. .239 - —
tanks, same basis...lb. .224 - —
tankwagon, same basis. lb. .229 - —
other production, dms., c.l., same basis..lb. .21½- —
l.c.l., same basis....lb. .22 - —
tanks, same basis....lb. .20½- —

Butyl acetate, synthetic, dms., c.l., same basis..lb. .15½- —
l.c.l., same basis..lb. .16 - —
tanks, same basis...lb. .14½- —
secondary,[1] dms., c.l., dlvd. E. of Miss. R...lb. .09¾- —
l.c.l., same basis.....lb. .10 - —
tanks, same basis.....lb. .08¾- —
Normal butyl acetate, W. of Miss. R., ½c per lb. higher.
Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works .....lb. .14½- —
Ether (see Ether, butyl).
Lactate, dms., works.....lb. .26½- —
Laurate, dms., works.....lb. .42 - —
Myristate, dms., works.....lb. .41 - —
Oleate, ref., dms., l.c.l., works. lb. .35 - —
tech., dms., c.l., works....lb. .24 - —
l.c.l., works .....lb. .24½- .25½
Phenylacetate, dms. .....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd.....lb. .16½- .17
tanks, dlvd. .....lb. .15½- —
Stearate, dms. .....lb. .31½- .35
Butyric ether, bots. .....lb. 6.50 - 6.90
cns., works .....lb. .65 - .70
dms., works .....lb. .60 - —

C

Cadmium bromide, bots.....lb. 1.84 - 1.91
jars .....lb. 1.65 - 1.70
Iodide, bots.....lb. 4.23 - —
cns. .....lb. 4.00 - —
Lithopone (see Yellow).
Metal,[3] ingots or sticks, dlvd. lb. 1.30 - 1.80
pat. shapes, cs., dlvd....lb. 1.35 - 1.55
Selenide (see Red).
Sulphide (see Yellow).

Spot Deliveries

GUM ARABIC Clean Amber Sorts
Sphinx Brand
PHOSPHORIC ACID 75% Edible Food Grade
PHOSPHORIC ACID U.S.P. Syrupy
CALCIUM CARBIDE 14 N.D.
BORIC ACID
MAGNESIUM METAL POWDER High Purity
PHOSPHORUS Red Amorphous
HEAVY CALCINED MAGNESIA White
COPPER SULPHATE
SODIUM PERBORATE U.S.P.
SODIUM HYDROSULPHITE
RESORCINOL U.S.P. Recrystallized
SALOL U.S.P. (Phenol Salicylate)

OTHER SPECIAL PRODUCTS
Distributors for THE RUFERT CHEMICAL COMPANY
NICKEL FORMATE • Also NICKEL CATALYST • NICKEL CARBONATE
NICKEL OXIDE, etc.

GOLWYNNE
CHEMICALS CORPORATION
420 LEXINGTON AVENUE • NEW YORK 17, N. Y. • PHONE LE 2-9740

Caffeine,[1] dms., 100 lbs. or more,	lb.	2.80 - 2.85
smaller lots	lb.	2.95 - 3.25
anhydrous, dms., 100 lbs. or more	lb.	3.00 - 3.08
smaller lots	lb.	3.15 - 3.45
Citrated, dms., 100 lbs. or more,	lb.	1.95 - —
smaller lots	lb.	2.05 - 2.30
Hydrobromide, bots.	lb.	5.29 - 5.37
Calabar beans, bgs., futures.	lb.	.65 - .66
Calamus root, natural, dom., bls.	lb.	.45 - .50
imported, bleached, bls.	lb.	.70 - .88
Calciferol, in corn oil, dms., 10,000 units or more, works,	unit.	.10 - —
1,000 to 10,000 units, works,	unit.	.11 - —
less than 1,000 units, works,	unit.	.12 - —
Calcium acetate, bgs., dlvd.	100 lbs.	3.00 - 4.00
Arsenate, bgs., c.l., whse., wks., frt. alld.	lb.	.07½- .08
l.c.l., same basis	lb.	.08 - .08½
Bromide, N.F., jars	lb.	.65 - .70
Carbide,[1] dms., c.l., works	ton.	50.00 - —
dlvd.	ton.	87.00 - 90.00
Carbonate (see Chalk and Whiting).		
Chloride, cryst., purified, bbls., jars	lb.	.28 - .30
flake, 77-80%, paper bgs., c.l., dlvd.	ton.	18.50 - 35.00
l.c.l., dlvd	ton.	28.50 - 45.00
liquor, basis 40%, tanks, works	ton.	7.50 - —
solid, 73-75%, dms., c.l., dlvd.	ton.	18.00 - 34.50
l.c.l., dlvd	ton.	28.00 - 44.50

Calcium chloride prices vary according to zone; minimum prices are for spot delivery. C.l. prices for flake in burlap paper-lined bags, $2.50 per ton over paper bags; drums $3.50 per ton over paper bags.

Calcium cyanide, dms., delivered E. of Rockies	lb.	.20 - .40
Gluconate, USP, gran., bbls.	lb.	.52 - —
dms.	lb.	.57 - .60
cns.	lb.	.70 - —
powd., 2c. per lb. lower.		
Glutamate, kgs.	lb.	1.50 - —
Glycerophosphate, fiber dms., 1,000-lb. lots	lb.	1.25 - —
smaller lots	lb.	1.40 - 1.60
Hypochlorite, dms., dlvd. E. of Rockies	lb.	.22 - .26½
cans, in cases, same basis	lb.	.3778- .4225
Iodide, bots., jars	lb.	4.04 - 4.19
Lactate, USP, bbls.	lb.	.33 - .40
Laurate, bbls.	lb.	.28 - .30
Mandelate, USP, dense, fluffy, works, dms.	lb.	2.03 - 2.30
Naphthenate, 5% Ca, 50-gal. dms.	lb.	.25½- .26½
Panthothenate, doz., 100-gram bots, works	per gram.	.10 - —
Phosphate, feeding grade, bgs., works	ton.	75.00 - —
food grade, bbls., 10 or over, works	lb.	.07 - .07½
less than 10, works	lb.	.08 - .10
medicinal, dibasic, bgs.	100 lbs.	11.40 - 18.00
monobasic, cryst., bgs., c.l., works, frt. equald.	lb.	.05¾- —
l.c.l., frt. equald.	lb.	.06 - .06½
tribasic, bbls., c.l., works	lb.	.0635- —
bgs., l.c.l., works	lb.	.0645- .0980
Resinate, precip., 5.8% Ca, 100-lb. dms	lb.	.18½- —
Silicate, hydrated, c.l., bgs., works	lb.	.05½- —
l.c.l., works	lb.	.06 - —
Stearate, precip., ctns., 2,000 lbs. to c.l., works	lb.	.29½- —
l.c.l., works	lb.	.30½- —
Sulphate (see Gypsum).		
Calcium sulphide, 70%, bgs., c.l., works	ton.	43.00 - —
80%, bgs., c.l., works	ton.	86.00 - —
luminous, tins, works	lb.	1.25 - —
Sulphocarbolate, bbls.	lb.	.49 - .50
Tallate, 2%-4% Ca, 50-gal. dms.	lb.	.13½- .19½
Calcium-strontium sulphide, phosphorescent, dms., works, fine particle size, works.	lb.	1.00 - 1.80
	lb.	1.50 - 1.75
Calendula flowers, bls.	lb.	1.25 - 1.30
Calomel, bbls., dms.	lb.	2.44 - 2.45
Camphor, natural	lb.	No stocks
synth., tech., bbls., contract, 2,000 lbs. or more, works	lb.	.42 - —
10 bbls. (1,500 lbs.)	lb.	.44½- —
5 to 9 bbls.	lb.	.45 - —
1 to 4 bbls.	lb.	.46 - —
smaller lots	lb.	.49 - .55
USP, gran., powd., bbls., 2,000-lb. lots	lb.	.69 - —
1,000-lb. lots	lb.	.70 - —
smaller lots	lb.	.71 - —
tablets, 2,000-lb. lots	lb.	.82 - —
1,000-lb lots	lb.	.83 - —
smaller lots	lb.	.84 - —
Monobromated, dms.	lb.	3.20 - —
Canada balsam (see Fir balsam).		
Cantharides, Russian, bgs.	lb.	9.00 - —
Chinese, cs.	lb.	7.00 - 7.25
powd., bxs.	lb.	7.50 - 7.75
Capsicum (see Pepper, red).		
Capsicum oleoresin, USP VII, cns.	lb.	4.50 - 4.65
Caramel coloring, bbls.	gal.	.70 - 1.10
Caraway seed, California, Dutch type	lb.	.25½- .26
Caraway seed, Canadian, bgs.	lb.	No stocks
Danish, bgs.	lb.	.26 - .26½
Dutch, bgs.	lb.	.25¾- .26¼
futures, bgs.	lb.	.24 - .26¼
Spanish, dewhiskered, bgs.	lb.	No stocks
Swedish, bgs.	lb.	.23½- .24
Syrian, dewhiskered, bgs.	lb.	No stocks
Carbasole, 98%, dms., ton lots, works	lb.	.79 - —
smaller lots, works	lb.	.80 - —
95%, dms., ton lots, works	lb.	.75 - —
smaller lots, works	lb.	.85 - —
Carbinol, butyl, norm., dms., l.c.l., works	lb.	.37 - —
secondary, dms., l.c.l., works	lb.	.60 - —
Isobutyl, dms., c.l., works	lb.	.23½- —
l.c.l., works	lb.	.23½- —
tanks, works	lb.	.21½- —
Methylisobutyl, dms., c.l., nearest delivery point buyer's works	lb.	.11¾- —
l.c.l., same basis	lb.	.12¾- —
tanks, same basis	lb.	.10¾- —
Carbon bisulphide, 55-gal. dms., c.l., frt. alld. E. of Miss R., N. of Ohio R.	lb.	.05 - —
l.c.l., same basis	lb.	.05¾- —
5-gal. dms., c.l., same basis.	lb.	.07 - .07½
l.c.l., same basis	lb.	.08 - .08¾
Dioxide, cyls.	lb.	.08 - .08
Tetrachloride,[1] c.p., dms., c.l.	gal.	.96 - —
l.c.l.	gal.	1.04 - —
tech., Zone 1, 52½-gal. dms., c.l., frt. alld.	gal.	.73 - —
l.c.l., frt. alld.	gal.	.80 - —
5 or 10-gal. dms., c.l., frt. alld.	gal.	1.10 - —
l.c.l., frt. alld.	gal.	1.20 - —
Zone 2, 52½-gal. dms., c.l., frt. alld.	gal.	.80 - —
l.c.l., frt. alld.	gal.	.87 - —
5 or 10-gal. dms., c.l., frt. alld.	gal.	1.04 - —
l.c.l., frt. alld.	gal.	1.14 - —
Zone 3, 52½-gal. dms., c.l., frt. alld.	gal.	.90 - —
l.c.l., frt. alld.	gal.	.99 - —
5 or 10-gal. dms., c.l., frt. alld.	gal.	1.13 - —
l.c.l., frt. alld.	gal.	1.23 - —
Zone 4, 52½-gal. dms., c.l.	gal.	.79 - —
l.c.l., frt. alld.	gal.	.86 - —
5 or 10-gal. dms., c.l.	gal.	1.09 - —
l.c.l.	gal.	1.13 - —
USP, obys.	lb.	.17 .19

Carbon tetrachloride prices are frt. alld with the exception of Zone 4, where prices are f.o.b. cars, L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings.

Cardamom, bleached, bold, cs.,	lb.	1.75 - 1.80
medium, cs.	lb.	1.55 - 1.60
decorticated, Guatemala, cs.	lb.	1.35 - 1.40
India, cs.	lb.	1.35 - 1.40
green, Alleppey, bgs.	lb.	1.05 - 1.10
Carotene, cryst., 1,350,000 A units per gm., tins, works, 1,600,000 units.		.50 - —
research grade (alpha, 10%; beta, 90%), amps. 100 grams, dlvd.	gram.	2.85 - —
50 grams, dlvd.	gram.	2.90 - —
in vegetable oil, 250,000 USP units per gm., bots., works.	lb.	27.90 - —
50,000 USP units per gm., bots., works.	lb.	3.45 - —
dms., works.	lb.	7.05 - —
8,500 A units per gm., tins, works, 1,000,000 units.		.55 - —
dms., works., 1,000,000 units.		.50 - —
3,300 USP units per gm., dms., works.	lb.	.66 - .71
Carvol, bots.	lb.	14.75 - 22.50
Cascara sagrada bark, bulk	lb.	.40 - .45
Case-hardening mixture, 30% gran., dms., l.c.l.	lb.	.09¾- —
slabs, dms., l.c.l.	lb.	08¾- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point	lb.	No prices
2,000 lbs. or more, but under 10,000 lbs., same basis	lb.	No prices
less than 2,000 lbs., same basis	lb.	No prices
rennet-precip., 10,000 lbs. or more, same basis	lb.	No prices
2,000 lbs. or more, but under 10,000 lbs., same	lb.	No prices
less than 2,000 lbs.	lb.	No prices
imp., acid-precip., ground, bgs., 100 bgs. or more	lb.	No prices
rennet-precip., unground, 100 bgs. or more	lb.	No prices
Cassia, Batavia No. 1, Thingnilli bls.	lb.	.60 Nom.
No. 1, regular, bls.	lb.	Nominal
shortstick, bls.	lb.	.50 Nom.
broken, bls.	lb.	.46 Nom.
China buds, bgs.	lb.	.36 - .37
Kwangsi, broken, bls.	lb.	.19 - .20
rolls, selected, cs.	lb.	.21½- .22
extra select, broken, bls.	lb.	.15½- .16
Saigon, all medium, futures	lb.	.45 - .46
4-10-4, bls.	lb.	.44 - .45
Cassia fistula, bakts.	lb.	.26 - .28
Castor bean, bgs., Brazilian ports	long ton.	205.00 - —
Oil (see Oil, castor).		
Pomace,[1] bgs., c.l., works	unit-ton.	3.15 - 4.75
Castoreum, nat., cns.	lb.	8.00 - 12.00
synthetic, cns.	lb.	10.00 - 21.00
Catechol, CP, cryst., works, fib. dms., frt. alld.	lb.	1.90 - —
resublimed, works, frt. alld., dms.	lb.	2.25 - —
Catnep, bls.	lb.	.60 - .65
Celery seed, French, bgs.	lb.	.50 Nom.
Indian, bgs.	lb.	.25 - .26
Celluloid scrap (see Pyroxylin scrap).		
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more	lb.	.80 - —
granules, ctns., same basis	lb.	.85 - —
Cellulose acetate-butyrate, flake, high (36.5%) butyryl content, 50-lb. ctns., 5,000 lbs. and up, frt. alld.	lb.	.45 - —
1,000-4,900 lbs., frt. alld.	lb.	.46 - —
50-lb. ctns., 100-900 lbs., frt. alld.	lb.	.47 - —
smaller pkgs., works	lb.	.48 - —
medium (15.5 or 17.0%), 50-lb. ctns., 5,000 lbs. and up, frt. alld.	lb.	.43 - —
1,000-4,900 lbs., frt. alld.	lb.	.44 - —
100-900 lbs., frt. alld.	lb.	.45 - —
smaller pkgs., works	lb.	.46 - —

Granules are 5c. per lb. higher all quantities.

WORLD'S LARGEST PRODUCER OF SYNTHETIC RESINS

RCI

Quota Free!

No. 5900

Azo RED TONER

proves its worth...

in scores of formulations

They're pouring in—letters and comments from the trade on RCI's new organic red pigment. And all confirm our laboratory findings, that Azo Red Toner is practically the equal of our famous 5055 Para Toner Light in masstone, light fastness, tinting strength, hiding power, wetting and grinding. That's great news for you because No. 5900 Azo Red Toner is available *right now* in any desirable quantities. Write direct to the Sales Department in Detroit for testing samples and further data.

REICHHOLD CHEMICALS, INC.

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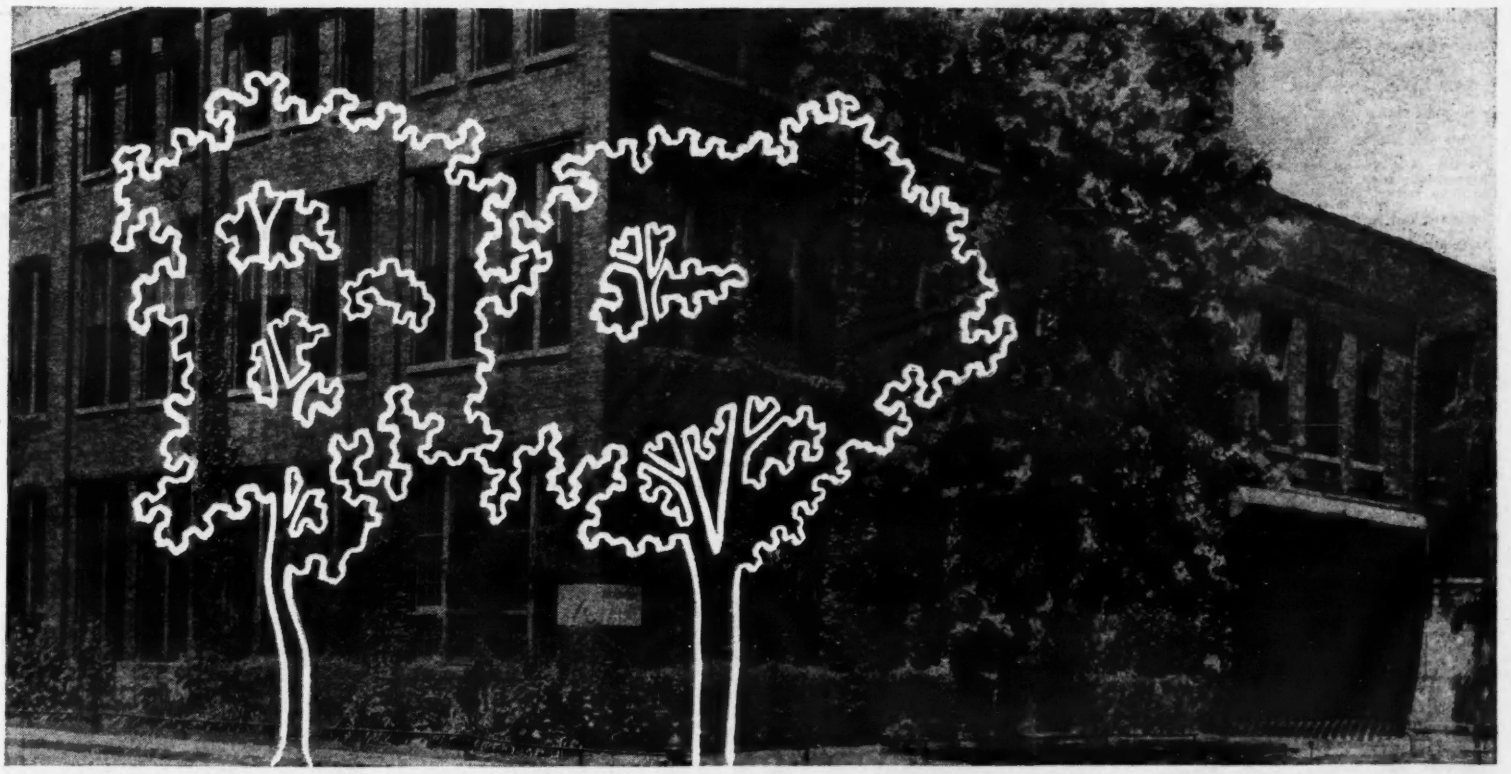
SYNTHETIC RESINS • CHEMICAL COLORS • PHENOLIC PLASTICS • INDUSTRIAL CHEMICALS

LESS ELM TREES BUT MORE PEOPLE... A SHORT SKETCH OF 25 YEARS OF RESEARCH

(Above) 1921. FORMER machine shop, Maywood, Ill., which had just become new home of Canco's Central Research Laboratories staffed by 15 scientists and equipped with $49,000 worth of research tools. Behind them, the scientists had many pioneering achievements in food processing. High light of early period (back to 1907) was development of "sanitary-style" can. Canning industry greatly benefited by this important change in can style. It is one of the milestones in the food industry . . . and was also an early triumph of research.

(Below) 1946. SAME building in Maywood. One elm of the three shown in 1st picture remains to shade the comings and goings of 151 scientists working with $583,000 worth of research equipment. In 25 years Canco's research has following high lights: Development of C-, meat-, and special-enamels; invention of beer can, paper milk container, vacuum coffee can, frozen food container; played a large part in the development of cold-reduced plate, wartime enamels, and the electrolytic process of tin plating...more industrial milestones.



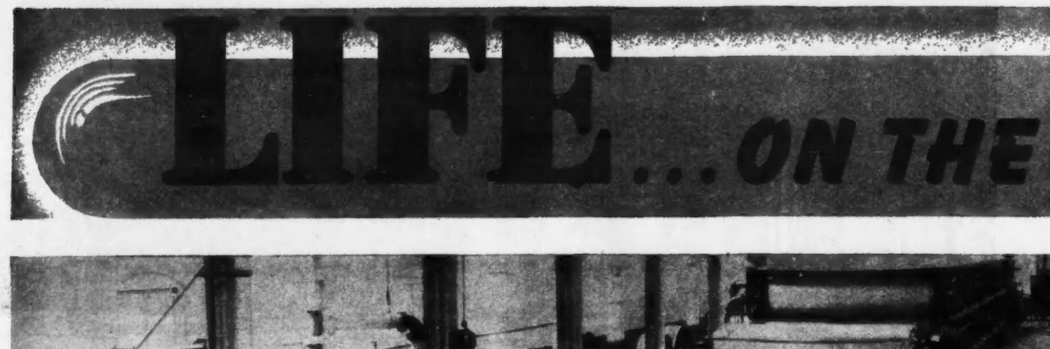
AMERICAN CAN COMPANY • NEW YORK • CHICAGO • SAN FRANCISCO CANCO No Other Container Protects Like the Can

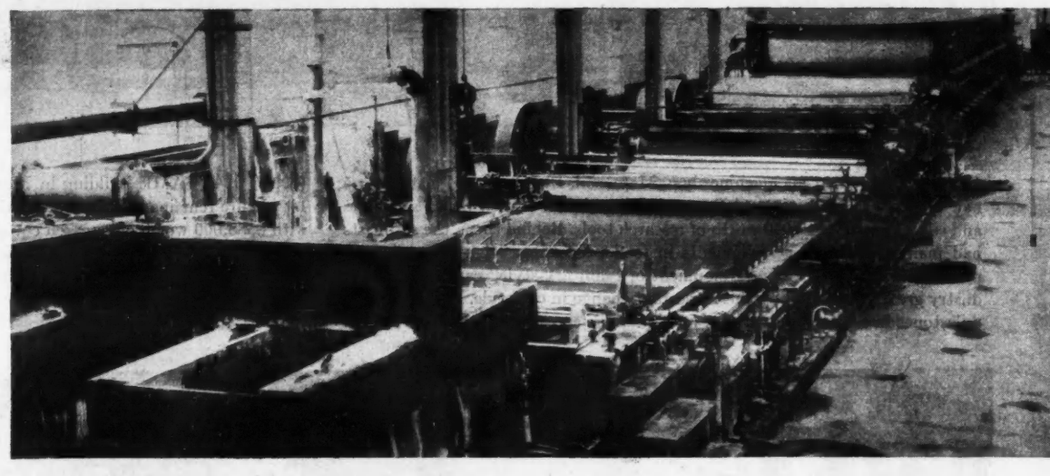
Cellulose acetate-propionate, flake, high (51.5% propionyl content), 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkgs., works..lb. .48 - —
Granules are 5c. per lb. higher all quantities.
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb .30 - —
Cerium hydrate, dms., works..lb. 1.00 - —
Oxalate, NF, bbls., kgs., works, lb. .50 - .52
Oxide, optical grade, kgs., 100-lb. lots, works..lb. 1.50 - —
kgs., smaller lots, works.lb. 2.00 - —
Chalk, precipitated, cosmetic, dentifrice, and drug, bgs., c.l., works..lb. .02¾- —
paint and other industries, bgs., c.l., works..ton.40.00 - —
papermakers, bgs., c.l., works. ton.32.50 -40.00
Chalk, precipitated, rubbermakers, bgs., c.l., works..ton.30.00 - —
Chamomile, Hungarian type, os., lb. .90 - .95
Roman, bls., futures.....lb. 1.55 - 1.60
Charcoal, hardwood, lump, bulk, c.l., works..ton.43.50 - —
bur, bgs., extra, returnable, c.l., works..ton.45.50 - —
briquets, bulk, c.l., works.ton.61.70 - —
bgs., c.l., works.....ton.66.70 - —
granular, all grades, bgs., works..ton.58.50 -64.50
screenings, bgs., works...ton.33.50 - —
Pinewood,[7] lump, bgs., c.l., Southern shipping point.ton.20.00 -24.00
granular, powd., bgs., c.l., works, South..ton.32.20 -34.20
l.c.l., works.....ton.41.00 - —
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, standard 25% tannin, bbls., c.l., works, 100 lbs. 3.82 - 4.00
l.c.l., works.....100 lbs. 4.07 - 4.85
tanks, works.....100 lbs. 3.22 - 4.00
powdered, 65% tannin, bags extra, c.l., works.100 lbs. 9.02 - 9.96
l.c.l., works....100 lbs. 9.77 -10.71
Chillies (see Pepper, Red).
China clay, dom., dry-grd., air-float, 99.75%, 200 mesh, bgs., c.l., works..ton. 9.50 - —
l.c.l., works....ton.16.00 - —
bulk, c.l., works.ton. 7.60 - —
200 mesh, bgs., c.l., works..ton. 8.50 - —
l.c.l., works.....ton. 9.50 -15.50
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works..ton. 9.80 - —
paper bgs., c.l., works.ton.12.50 - —
imported, white, lump, bulk, c.l., ex dock Balto, Boston, Norfolk, Phila...ton.19.00 -21.00
powd., ckc., l.c.l., ex whse. ton.41.00 - —
Chloral hydrate, jars.....lb. .93 - .96
dms. .....lb. .90 - .95
Chlorinated rubber[8] standard, ctns., 100 lbs. up, works.lb. .32 - —
smaller lots, works.....lb. .35 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Chlorine, liquid, cyls., c.l....lb. .05¾- —
contracts .....lb. .05¾- —
l.c.l. .....lb. .07¾- —
tanks, single units, works, frt. equald..100 lbs. 1.75 - —
multiple units, 3 or over, works, frt. equald..100 lbs. 2.00 - —
2, wks., frt. equald.100 lbs. 2.50 - —
1, wks., frt. equald.100 lbs. 3.00 - —
Open market prices are 5 percent higher, according to OPA ceiling.
Chloroform, tech., dms.....lb. .20 - .23
USP, dms. .....lb. .30 - .33
Chloropicrin, com'l, 100 lb. cyl., 100-lb. cyls., same basis.lb. .82 - —
25-lb. cyls., ex whse.....lb. 1.00 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Choline chloride, fib. dms., works, lb. 3.00 - 3.10
Dihydrogen citrate, fib. dms., works..lb. 3.00 - 3.10
Chrome acetate, powd., 23% Cr., bbls., works..lb. .32 - .34
ton lots, works..lb. .30 - .32
solut., 7½%, bbls., cs.....lb. .08¼- —
8½%, bbls., cs.....lb. .08¾- —
Fluoride, bbls., works.....lb. .24 - .27
Cake, bulk, c.l. works.....ton.16.00 - —
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots. .....lb. 6.02 - 6.09
Cinchona bark,[9] red, quill, URP, 10 lb. can..lb. 1.20 Nom.
Cinchonidine,[9] small, cryst., ozs., 100 ozs..oz. No prices
Cinchonine[9] small, cryst., ctns., 100 ozs..oz. No prices
large, cryst., ctns., 100 ozs..oz. No prices
Sulphate, NF, ctns. 100 ozs..oz. No prices
Cinchopen, NF, heavy, dms., works..lb. 2.70 - 2.80
standard, dms., works....lb. 2.80 - 2.90
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., ctns., dms...lb. .93 - 1.15
Cinnamon, Ceylon, No. 2, bis..lb. No stocks
Citral, bots., ctns.....lb. 7.25 - 9.00
Citronellal, bots., dms.....lb. No prices
Citronellol, bots., dms.....lb. 9.50 -12.50
Cloves, Madagascar, bis.....lb. .13½- .14
futures, bis. .....lb. .13¾- .14¼
Zanzibar, bis. .....lb. .15½- .16
futures, bis. .....lb. .15¾- .16
Clover tops, red, dom., bgs....lb. .65 - .70
imported, bgs. .....lb. No stocks
Coaltar, coal-gas, crude, 90 gal., bbls., c.l., works..bbl. 9.25 - —
l.c.l., works .....bbl. 9.75 - —
tanks, works .....gal. .07½- .08½
refd., 50-gal., bbls., c.l., works, bbl. 9.75 - —
l.c.l., works .....bbl. 9.25 - —
tanks, works .....gal. .08¾- .09½
water-gas, crude, 55-gal. dms., c.l., works..bbl. 8.25 - —
l.c.l., works .....bbl. 8.75 - —
refd., 55-gal. dms., c.l., works, dm. 8.75 - —
l.c.l., works .....dm. 9.25 - —
Cobalt acetate, bbls., kgs., divd., lb. .23¾- —
feed grade, 22½% Co, kgs..lb. 1.25 - —
Carbonate, powd., bgs., works, lb. 1.58 - —
feed grade, 45½% Co, kgs..lb. 1.85 - —
Chloride, kgs., works.....lb. .87½- —
feed grade, 24.5% Co, kgs..lb. 1.35 - —
Hydrate, bbls.....lb. 2.04 - —
feed grade, 52% Co, kgs....lb. 2.30 - —
Linoleate, paste, 8%, dms...lb. .32 - .35
solid, 8½%, dms.....lb. .44 - —
Nitrate, feed grade, 20.4% Co, kgs..lb. 1.25 - —
Oleate, bbls.....lb. .44 Nom.
Oxide,[1] black, kgs.....lb. 1.84 - —
Phosphate, feed grade, 34% Co, kgs..lb. 1.75 - —
Resinate, precip., 7.5% Co, 100-lb. dms..lb. .33½- —
Soyate, 5%-5.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate,[6] dms.....lb. .65 - —
feed grade, 21% Co, kgs....lb. 1.00 - —
Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.

Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, 100-oz. lots, ozs..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .46 - .47
silver, Teneriffe, bgs.....lb. .47 - .48
Cocoa butter,[4,7] bulk, ship. pt.lb. .33 - —
Cocillana bark, bgs.....lb. .53 - .54
Codeine, ctns., 100 ozs.....oz.11.70 - —
Hydrochloride, ctns., 100 ozs.oz.10.50 - —
Phosphate, ctns., 100 ozs.....oz. 9.00 - —
Sulphate, ctns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bis.....lb. .24 - .25
blue, bis.....lb. .24 - .25
Colchicine, bots., ctns.....oz. No stocks
Colchicum seed.....lb. No stocks
Collodion, USP, dms.....lb. .19½- .20½
ctns. .....lb. .23 - .29½
Flexible, USP, dms.....lb. .21 - .27
ctns. .....lb. .25 - .31
Colocynth pulp, bis.....lb. .52 - .55
Colombo root, bis.....lb. .14 - .15
Coltsfoot leaves, bgs.....lb. .57 - .60
Condurango bark, bgs., futures, lb. .25 - .26
Copaiba balsam, Para, ctns....lb. No stocks
S. A., USP, ctns.....lb. .98 - 1.00
Copper acetate, cupric, bbls., works..lb. .25¾- —
smaller containers, wks..lb. .27 - —
Carbonate, 52-54%, bbls.....lb. .19½- .20½
Chloride, anhyd., bbls.....lb. .22½- .23
crystals, bbls.....lb. .14¾- .17
Cyanide, tech., bbls.....lb. .34 - .38
Hydrate, dms.....lb. .22¾- —
Iodide, bots.....lb. .34 - .38
Metal,[1] electrolytic .....lb. .14¾- —
Naphthenate, 8% Cu, 50-gal. dms..lb. .19 - —
Nitrate, tech., cryst., bbls..lb. .19¾- .20½
Oleate, precip., bbls.....lb. .23½- .25½
Oxide, black, bbls., works...lb. .19 - .20
red, com'l, bbls., works....lb. .21 - .24½

Copper oxychloride-sulphate,[6] bgs..lb. .17 - .20
Resinate, precip., 8.5% Cu, 125-lb. dms..lb. .18¼- —
Stearate, bgs., works.....lb. .35½- —
Sulphate,[1] 99%, cryst., bgs., c.l., works..100 lbs. 5.65 - —
l.c.l., 700 to 30,000 lbs., 100 lbs. 5.80 - 6.15
monohydrated, dms., c.l., divd. 100 lbs.10.10 - —
l.c.l., dlvd.....100 lbs.10.85 - —
tribasic, bgs., works, c.l...lb. .17¾- —
l.c.l., same basis.....lb. .18¼- —
Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
l.c.l., works.....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton.20.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra,[1,7] c.i.f. Pacific ports..ton.110.25 - —
c.i.f. Atlantic or Gulf ports.. ton.116.20 - —
Coriander seed, Argentine, bgs. lb. .06¼- .06¾
Indian bgs.....lb. No stocks
Italian, bgs. if released....lb. .06 - .06½
Morocco, bgs. .....lb. No stocks
Corn silk, bis.....lb. .45 - .46
Corn sugar, tanners, chipped, bgs., c.l., 60,000 lbs. min. 100 lbs. 5.216 - —
bbls., c.l., same basis.... 100 lbs. 5.349 - —
Syrup, 42°, bbls., c.l....100 lbs. 6.027 - —
l.c.l. .....100 lbs. 6.127 - —
Corrosive sublimate,[3] cryst., dms., 50 lbs. or more..lb. 2.07 - —
gran., powd., dms., 50 lbs. or more..lb. 1.92 - —
Cottonroot bark, bis.....lb. .40 - .45
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd..unit-ton. 1.20 Nom.
Meal, 41% protein, bulk, mills, c.l..ton.90.00 - —

Coumarin,[1] ctns., 5 lbs. or more.. lb. 2.75 - —
smaller lots..... .....lb. 2.90 - 3.10
Cramp bark, NF, bis.....lb. .80 - .90
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one ship't..lb. .45½- —
smaller lots, bbls., kgs., lb. .46 - .46½
Creosote carbonate, bots., cbys., lb. 2.10 - 2.80
Coaltar (see Cresol).
Oil,[5] coaltar, crude, tanks, works..gal. .15¾- .16½
refined, dms., c.l., works, gal. .247 - .265
l.c.l., same basis....gal. .26 - .31
tanks, same basis....gal. .16 - .19¼
solution, tanks, works....gal. .141 - .149
Wood, beech, bots., cbys.....lb. .85 - 1.04
Hardwood, N.F., bots., cbys.lb. .60 - .77
Pine, dms.....gal. .31 - .32
Cresol,[2] special resin grades, dms., c.l., works, frt. equald. lb. .10¼- .11¼
l.c.l., same basis.....lb. .10½- .12¾
tanks, same basis.....lb. .09½- .11½
USP, dms., c.l., same basis..lb. .11¼- .12¾
l.c.l., same basis.....lb. .11¾- .14
tanks, same basis.....lb. .10½- .12¾
Croton aldehyde, 91-92%, 55 and 110 gal. dms., l.c.l., works lb. .13½- —
5 and 10-gal. dms l.c.l. works..lb. .17 - —
Cryolite, nat.,[4] bgs., bbls., c.l., works. 100 lbs. 9.50 - 9.75
bbls., l.c.l., works....100 lbs.10.00 - —
synth.,[4] bgs., bbls., c.l., frt. alld. E. of Miss R..lb. .08½- —
l.c.l., works..... .....lb. .09¼- —





(Above) **ONE OF THE ESSENTIAL CHEMICALS** in the manufacture of millions of pounds of paper which roll off the paper making machines each year is aluminum sulphate, used primarily in combination with rosin size for the sizing or waterproofing of paper.

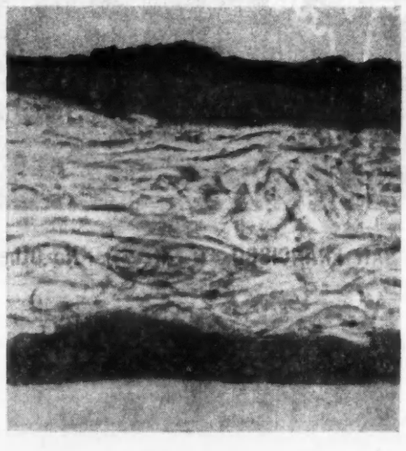
ALUMINUM SULPHATE—VITAL STAPLE IN PAPER MAKIN

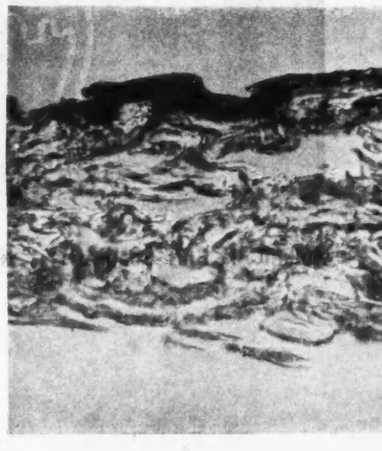
Aluminum sulphate is an indispensable material in the paper making industry. In addition to its primary function in combination with rosin for the sizing of paper, alum is also used for the clarification of process water, for the setting of certain types of dyes, and for the prevention of foam which affects both paper production and quality.

Alum as used in paper making is a partially dehydrated aluminum sulphate. For the sizing or waterproofing of fibers, it is usually added in the paper mill beater, either in ground form or as a solution. Rosin size is first added to the stock, then the necessary aluminum sulphate, thus fixing the rosin on the fibers in complex form. The aluminum sulphate is sometimes added continuously to the stock at various points from the beater to the paper machi

For the optimum sizing of paper, the correct amount of alumin sulphate is of prime importance. The amount used will vary, depe ing upon the quality of paper desired and mill conditions.

During the last few years paper makers have made gr strides toward obtaining and maintaining the proper alumin ratio. This has come about through the establishment of bet methods of technical control. Another factor is the techni service offered by chemical organizations, such as Cyanamid, help the paper maker secure the best results in the use of s and aluminum sulphate.





(Left and right) **COMPARATIVE WATER RESISTANCE** or resistance to ink penetration of coated and uncoated papers is shown in these photomicrographs (100 x). The photomicrograph on the left shows a cross section of printed coated paper, and that on the right uncoated stock printed. The correct amount of aluminum sulphate is of prime importance for the optimum sizing of paper.

Photomicrographs: Courtesy Interchemical Corporation

Cube root, 5% rotenone, bbls., works..lb. .45 - —
4% rotenone, bbls., works..lb. .36 - —
Cubeb berries, XX, bgs.....lb. 1.37 - 1.38
powd., cs.....lb. 1.47 - 1.48
Culvers root, bls.....lb. .40 - .45
Cumin seed, Cyprus, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .43 - .45
Morocco, bgs.....lb. No stocks
Persian, bgs., futures.....lb. .43 - .45
Syrian, bgs., futures.....lb. .43 - .45
Cutch, bgs.....lb. No stocks
Cyanamide[6] fertilizer mixing grades, guaranteed 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk, unit-ton. 1.62½- —
21% N., pulv., bgs. same basis..unit-ton. 1.52½- —
Cyclohexane, tech., dms. c.l., works..lb. .10½- —
l.c.l., works.....lb. .11 - —
tanks, works.....lb. .09½- —
Cyclohexanol, 99%-100%, dms., works..lb. .21 - .23
Cyclohexanone, 97½% min. dms., c.l., works..lb. .30 - .32
tech., dms., c.l., works....lb. .30 - —
l.c.l., works.....lb. .30½- —
tanks, works.....lb. .29 - —
Cyclopropane, USP, cyls. divd., gal. .37 - —

D

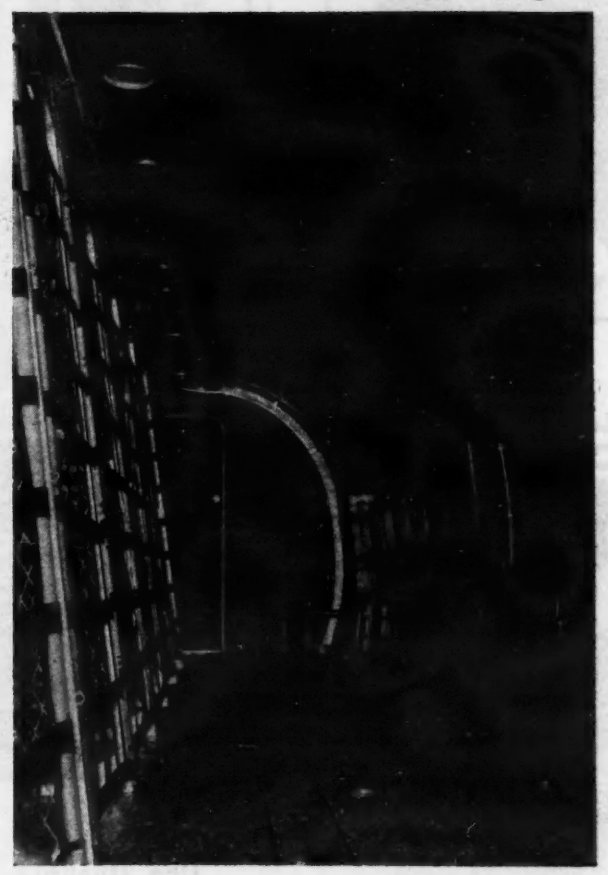
Damiana leaves, bls.....lb. .35 - .40
Dandelion root, bls.....lb. .75 - .80
DDT, fiber, dms., c.l., works..lb. .45 - —
ton lots, works.....lb. .50 - —
tins, smaller lots, works...lb. .53 - .60
Decanol, normal, tech., dms., divd..lb. .35 - —
Deertongue, bls.....lb. .34 - .35
Defluorinated phosphate,[1] paper bgs., works..ton.35.73 - —
Degras,[1] common, bbls.....lb. .10 - .12
neutral, less 2% ffa, bbls....lb. .22 - .24
over 2% ffa, bbls.....lb. .21 - .23
Derris root (see Cube root).
Dextrin,[1] British gum, bgs., c.l. 100 lbs. 6.651 - —
l.c.l.....100 lbs. 6.751 - —
Chicago, bgs., c.l....100 lbs. 6.25 - —
Corn, canary, bgs., c.l..100 lbs. 6.391 - —
l.c.l.....100 lbs. 6.491 - —
Chicago, bgs., c.l..100 lbs. 5.99 - —
dark, bgs., c.l.....100 lbs. 6.491 - —
l.c.l.....100 lbs. 6.591 - —
Chicago, bgs., c.l...100 lbs. 6.09 - —
white, bgs., c.l.....100 lbs. 6.241 - —
l.c.l.....100 lbs. 6.351 - —
Chicago, bgs., c.l...100 lbs. 5.84 - —
Dextrin prices above are for paper bags; cotton bags quoted 20c. higher.
Potato, dom., bgs., c.l.....lb. .10 - .10¼
l.c.l.....lb. .10¼- .11
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grades, bots...lb. 5.20 - 5.55
laboratory grade, bots..... 100 grams. 4.50 - —
tech., bots., works..... ....lb. 3.00 - —
Diamyl ether (see Amyl ether).
Phthalate, dms., tanks.....lb. No prices
Diatomaceous earth, dom. CP, bgs., c.l., Atlantic coast..lb. .07 - —
l.c.l., ex whse.....lb. .10 - .16
nat., bgs., c.l., Pacific coast. ton.22.00 -25.00
l.c.l., ex whse.....ton.45.00 - —
Diatomaceous earth, dom., purified, bgs., c.l., Atlantic coast..ton.55.00 -59.00
l.c.l., ex whse.....ton.85.00 -90.00
Imported, Algerian, bgs., c.l., Atlantic coast..ton. No prices
Mexican, white, bgs., c.l., Atlantic coast..lb. .03 - —
l.c.l.....lb. .06 - —
Dibutyl phthalate,[1] 5-gal. cns., works..lb. .2960- —
1-gal. cns., works.....lb. .3160- —
dms., c.l., works.....lb. .2900- .3510
l.c.l., works.....lb. .3050- .3560
tanks, works.....lb. .1900- .3410
Sebacate,[1] dms., c.l., works..lb. .5570- —
l.c.l., works.....lb. .5620- —
tanks, works.....lb. .5470- —
Tartrate, dms., works, frt. alld. lb. .92 - 1.02
Dibutylamine, dms., c.l., works..lb. .68 - —
l.c.l., works.....lb. .69 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether,[6] purified, dms., c.l., works, frt. equald with So. Charleston..lb. .16 - —
l.c.l., same basis.....lb. .17 - —
tanks, same basis.....lb. .15 - —
Diethanolamine,[6] dms., c.l., frt. alld. in E..lb. .23½- —
l.c.l., same basis.....lb. .24½- —
tanks, same basis.....lb. .23½- —
Diethyl carbonate, com'l, dms.lb. .3535- refd., 90%, dms.....lb. .50 -
Oxalate, dms., c.l., divd....lb. .30½- l.c.l., divd.....lb. .31 -
Phthalate,[6] dms., c.l., divd..lb. .21½- tanks, divd.....lb. .20½- —
Sulphate, dms., c.l., works..lb. .14 - —
l.c.l., works.....lb. .15 - —
tanks, works.....lb. .13 - —
Diethylamine, dms., c.l., works.lb. .44 - —
l.c.l., works.....lb. .46 - —
tanks, works.....lb. .40 - —
Diethylaminoethanol, dms. l.c.l., works, frt. alld. E. of Miss. R..lb. .75 - —
Diethylaniline, dms.....lb. .40 - —
Diethyleneglycol, dms., c.l., frt. alld. E. of R..lb. .14 - —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Monobutylether, dms., c.l., works..lb. .22 - —
l.c.l., works.....lb. .23 - —
tanks, works.....lb. .21 - —
Monoethylether, dms., c.l., wks. lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Digitalis leaves, dms.....lb. 1.05 - 1.15
Diglycol laurate, dms.....lb. .31 - .32
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .23 - —
Dihydroxydichlorodiphenylmethane, dms., works of N.Y met..lb. .95 - 1.00
smaller containers, same basis lb. 1.05 - 1.10
Di-isobutyl ketone, dms. works, lb. .19 - —
Dilleed, decorticated, bgs.....lb. .14½- .15
dewhiskered, bgs.....lb. .10½- .11
Dimethyl phathalate, dms., c.l., divd..lb. .20 - —
l.c.l., divd.....lb. .20½- —
tanks, divd.....lb. .19 - —
Dimethylene, anhyd., cyl., frt. alld. E. of Miss., 100% basis. lb. .37½- —
solution, dms., works, frt. alld. E. of Miss., 100% basis..lb. .37 - .47½
tanks, same basis.....lb. .36 - —
Dimethylaniline, dms., c.l.....lb. .21 - —
l.c.l.....lb. .22 - —
Dinitrobenzene, bbls.....lb. .13 - —
Dinitrochlorobenzene, dms.....lb. .14 - —
Dinitronaphthalene, bgs.....lb. .25 - .30
Dinitrophenol, bbls.....lb. .23 - —
Dinitrotoluene, dms., works.....lb. .13 - —
daily, dms.....lb. .05 - —
Diorthotolyiguanidin, dms., ton lots, divd..lb. .44 - —
smaller lots, divd.....lb. .46 - .47
Dioxan, dms., c.l., frt. alld..lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, destructive dist., dms., divd. E..gal. .70 - .71
tanks, divd. E.....gal. .69 - .69
steam-dist., dms., divd. E..gal. .71 - .72
tanks, divd. E.....gal. .69 - .69
Diphenyl,[6] bbls., c.l., works...lb. .15 - —
l.c.l., works.....lb. .16 - .20
Oxide, perfume grade, cns....lb. .42 - .45
dms.....lb. .43 - .45
Diphenylamine, bbls.....lb. .35 - —
Diphenylguanidin, dms., tanks..lb. .35 - —
smaller lots.....lb. .36 - .37
Divi-divi, 42% tannin, c.l., U.S. ports, ex dock..ton.68.00 -70.00
80% tannin, c.l., same basis.. ton.68.00 -69.00
Doggrass root, dom., cut, bls.lb. .30 - .35
imp., NF, cut, bls.....lb. .45 - .50
Dogwood, Jamaica, bark, bls..lb. .13 - .14
Dover's powder, USP, cns....lb. No stocks
Dragon's blood, drops, cs.....lb. .55 - .60
reeds, cs.....lb. No stocks
Dyes, coaltar (certified colors for foods, drugs and cosmetics), 5-lb. lots—
Blue, FD&C, No. 1, cns....lb.13.00 - —
Green, FD&C, No. 1 cns....lb.13.00 - —
No. 2, cns.....lb.17.00 - —
No. 3, cns.....lb.27.00 - —
Orange, FD&C, No. 1, cns...lb. 2.90 - —
No. 2, cns.....lb. 3.55 - —
Red, FD&C, No. 1, cns.....lb. 3.75 - —
No. 2, cns.....lb. 3.95 - —
No. 3, cns.....lb.17.00 - —
No. 4, cns.....lb. 3.60 - —
No. 32, cns.....lb. 4.05 - —
Yellow, FD&C, No. 1 cns...lb. 3.00 - —
No. 3, cns.....lb. 3.55 - —
No. 4, cns.....lb. 3.55 - —
No. 5, cns.....lb. 3.95 - —
No. 6, cns.....lb. 3.95 - —
Dyes, coaltar (certified colors for drugs and cosmetics), 1-lb. lots—
Black, D&C, No. 1, cns....lb. 8.25 - —
Blue, D&C, No. 4, cns.....lb.12.25 - —
Brown, D&C, No. 1, cns....lb.12.25 - —
Green, D&C, No. 5, cns....lb.12.25 - —
No. 6, cns.....lb.12.25 - —
Orange, D&C, No. 3, cns....lb. 8.25 - —
No. 4, cns.....lb.12.25 - —
No. 10, cns.....lb.15.95 - —
Dyes, coaltar (certified colors for drugs and cosmetics), 5-lb. lots—
Red, D&C, No. 8, cns.....lb. 2.85 - —
No. 17, cns.....lb. 8.25 - —
No. 18, cns.....lb.15.25 - —
Yellow, D&C, No. 7, cns....lb. 8.25 - —
No. 8, cns.....lb. 8.25 - —
No. 11, cns.....lb.10.25 - —
No. 19, cns.....lb.15.25 - —
No. 22, cns.....lb. 8.25 - —
No. 23, cns.....lb.12.25 - —
No. 27, cns.....lb.12.25 - —
Dyes, coaltar (certified colors for external use drugs and cosmetics), 1-lb. lots—
Blue, Ext. D&C, No. 1, cns..lb.12.25 - —
Green, Ext., D&C, No. 1, cns. lb. 12.25 - —
Red, Ext. D&C, No. 1, cns..lb.10.25 - —
No. 3, cns.....lb.21.25 - —
No. 6, cns.....lb. 7.25 - —
No. 10, cns.....lb.12.25 - —
No. 12, cns.....lb.12.25 - —
Yellow, Ext. D&C, No. 1, cns. lb. 8.25 - —
86 Chrome yellow, 2G...lb. .65 - .70
40 Chrome yellow R.....lb. .80 - 1.00
58 Victoria violet .....lb. .80 - 1.00
165 Lake red C.....lb. .70 - .80
170 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste..lb. .85 - .90
189 Lake red R, powd....lb. 2.00 - 2.10
202 Chrome blue black U.lb. .35 - .42
204 Chrome black A.....lb. .42 - .45
209 Fast red blue R.....lb. .75 - 2.00
216 Chrome red B.....lb. 1.75 - 2.00
262 Cloth red 2B.....lb. .60 - .80
269 Fast cyanin 5R.....lb. .90 - 1.00
290 Chrome black F.....lb. .85 - .95
304 Paper yellow .....lb. .88 - .90
307 Fast cyanin black B.lb. .80 - .85
326 Direct fast scarlet...lb. 2.00 - 2.25
366 Chyrophenin G.....lb. .55 - .70
382 Direct scarlet B.....lb. 1.15 - 1.20
387 Direct violet B.....lb. 1.00 - 1.20
394 Direct violet N.....lb. .80 - .85
401 Developed black BHN. lb. .45 - .60
406 Direct blue 2B.....lb. .66 - .70
412 Direct orange B.....lb. .60 - .70
415 Direct fast red F.....lb. .70 - .73
420 Direct brown M.....lb. .55 - .57
449 Benzo purpurin 4B....lb. .65 - .68
405 Benzo purpurin 10B..lb. .40 - .50
502 Direct azorin G.....lb. .75 - .80
512 Direct blue RD.....lb. .80 - 1.00
518 Direct pure blue 6B..lb. 1.20 - 1.30
520 Direct pure blue.....lb. .80 - 1.00
529 Direct fast black FF.lb. .55 - 1.00
581 Direct black EW.....lb. .50 - .54
582 Direct black RX.....lb. .35 - .45

CHEMICAL NEWSFRONT

(Below) **FABRICS TREATED WITH DECERESOL* 1861 SOFTENER** lead a softer life! For DECERESOL 1861 Softener imparts superior softness of hand and suppleness of drape to cotton, woolen, and rayon textiles, as well as to other yarns and threads. Because of these qualities, fabrics treated with DECERESOL 1861 are enjoying new and greater customer satisfaction.

DECERESOL 1861 Softener retains its softening properties even after repeated washing or dry cleaning of fabrics. It reduces bleeding of direct colors, decreases crocking of naphthol colors, and inhibits gas-fading tendencies of certain acetate colors.

Complete information on the general properties and methods of application of DECERESOL 1861 Softener is available from Cyanamid.



(*Above*) **LAMINAC* RESIN IS LIGHT FOR FLIGHT** and tough to scuff! That's why luggage compartments on commercial airliners are now being lined with LAMINAC laminated plastic panels. Formerly compartments were lined with aluminum, but when the metal became punctured from bumps or knocks, it tore and damaged luggage and cargo. Laminated paneling, however, has sufficient resiliency to absorb shock. It is strong, tough, and durable. It not only eliminates costly replacement of damaged interior paneling, but gives extra protection to plane and cargo. Panels have no sharp corners, and are lighter than metal.

LAMINAC resins, product of Plastics Division, American Cyanamid Company, can be used for the fabrication of either rigid or flexible laminates for many industrial, architectural, and decorative uses.

*Reg. U. S. Pat. Off.

AMERICAN Cyanamid COMPANY *Industrial Chemicals Division*

30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

Dyes, coaltar, for general uses (numbers are those of Colour Index scale)—

502	Direct green B	lb.	.50 - .55
504	Direct green G	lb.	.50 - .55
506	Direct brown 3GO	lb.	.85 - 1.00
620	Direct yellow R	lb.	1.25 - 1.50
698	Acid violet	lb.	1.00 - 2.00
812	Primulin	lb.	70 - .73
814	Direct fast yellow	lb.	2.00 - 2.25
945	Nigrosin (water soluble)	lb.	.35 - .50
1177	Indigo, 20%, paste	lb.	.15 - .18
	Benzo fast black L	lb.	.90 - 1.00
	Sulphur black	lb.	.20 - .25
	Sulphur blue	lb.	.45 - 1.00
	Sulphur brown	lb.	.25 - .50
	Sulphur maroon	lb.	.40 - —
	Sulphur tan	lb.	.30 - .50
	Sulphur olive	lb.	.25 - .54
	Sulphur yellow	lb.	.30 - .50
	Zambesi black	lb.	.75 - .80

Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Black—

865	Nigrosin derivatives	lb.	.30 - .44

Blue—

7075	Alizarin astrol base	lb.	15.00 - —
1078	Alizarin cyanin, green base	lb.	6.00 - —

Brown—

	Brown, oil soluble	lb.	1.15 - —

Green—

1078	Alizarin cyanin green base	lb.	5.00 - —

Orange—

24	Sudan I	lb.	.75 - —
	Red shade	lb.	.75 - —

Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Red—

75	Sudan II	lb.	1.05 - —
258	Sudan IV	lb.	.95 - —
680	Oil violet	lb.	.60 - —
749	Rhodamine B (oil pink)	lb.	2.50 - —
1069	Anthraquinone, violet base	lb.	6.00 - —

Yellow—

16	Amidoazobenzene yellow	lb.	.90 - —
17	Amidoazotoluene yellow	lb.	.75 - —
	61 Yellow OB	lb.	1.40 - 2.00

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Black—

246	Naphthol blue black S	lb.	.50 - —
720	Victoria blue B	lb.	1.85 - —
861	Indulin	lb.	.67 - —
873	Methylene gray	lb.	1.50 - —
909	New blue P	lb.	1.20 - —
922	Methylene blue	lb.	1.00 - —
1084	Alizarin saphirol B	lb.	1.90 - —
1180	Indigotin IA	lb.	85 - —

Blue—

714	Patent blue A	lb.	1.05 - 1.10

Dyes, coaltar, for stains, spirit-soluble (prices in bbls. of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Brown—

231	Bismarck brown G	lb.	.47 - .63
234	Resorcin brown Y	lb.	.65 - —
235	Resorcin dark brown R	lb.	.66 - —
632	Bismarck brown R	lb.	.47 - .63
798	Phosphin	lb.	4.65 - —

Green—

5	Naphthol green B	lb.	1.00 - —
657	Malachite green	lb.	1.35 - —
662	Brilliant green	lb.	2.00 - —
666	Guinea green B	lb.	1.15 - —
737	Wool green S	lb.	.58 - —
924	Methylene green B	lb	1.55 - —
1078	Alizarin cyanin green	lb.	2.00 - —

Orange—

10	Chrysodin G	lb.	.44 - —
21	Chrysodin R	lb.	.41 - —
27	Orange G	lb.	.50 - —
31	Amidonaphthol red G	lb.	.42 - —
37	Amidonaphthol red 6B	lb.	.68 - —
151	Orange Y	lb.	.31 - .33
161	Orange R	lb	.34 - —

Red—

79	Ponceau R	lb.	.48 - —
88	Fast red B	lb.	1.65 - —
176	Fast red A	lb.	.54 - —
179	Azorubin	lb.	.60 - —
183	Crocein scarlet 3BX	lb.	.72 - .75
185	Cochineal red A	lb.	.60 - —
752	Brilliant crocein M	lb.	.68 - —
677	Fuchsin	lb.	2.10 - —
749	Rhodamine B	lb.	3.50 - —
752	Rhodamine 6B	lb	4.50 - —
748	Eosin G	lb.	1.50 - —
841	Safranin	lb.	1.45 - —

Dyes, coaltar, for stains, spirit-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Violet—

680	Methyl violet B	lb.	.70 - .75
681	Crystal violet B	lb.	1.75 - —
695	Acid violet 4BN	lb.	.68 - —

Yellow—

10	Naphthol yellow S	lb.	.83 - —
138	Metanil yellow	lb.	.56 - .58
636	Fast light yellow	lb.	1.25 - —
639	Xylene light yellow	lb.	1.15 - —
640	Tartrasin	lb.	.80 - —
655	Auramine	lb.	1.27 - —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Black—

864	Nigrosin	lb.	.38 - .44

Blue—

860	Indulin	lb.	.60 - .70

Brown—

331	Bismarck brown	lb.	1.50 - —

Green—

637	Malachite green base	lb.	2.00 - —

Orange—

20	Chrysoidin G	lb.	.95 - —
21	Chrysoidin R	lb.	.96 - —

Red—

677	Fuchsin, magenta, base	lb.	7.25 - —
749	Rhodamine R	lb.	4.75 - —

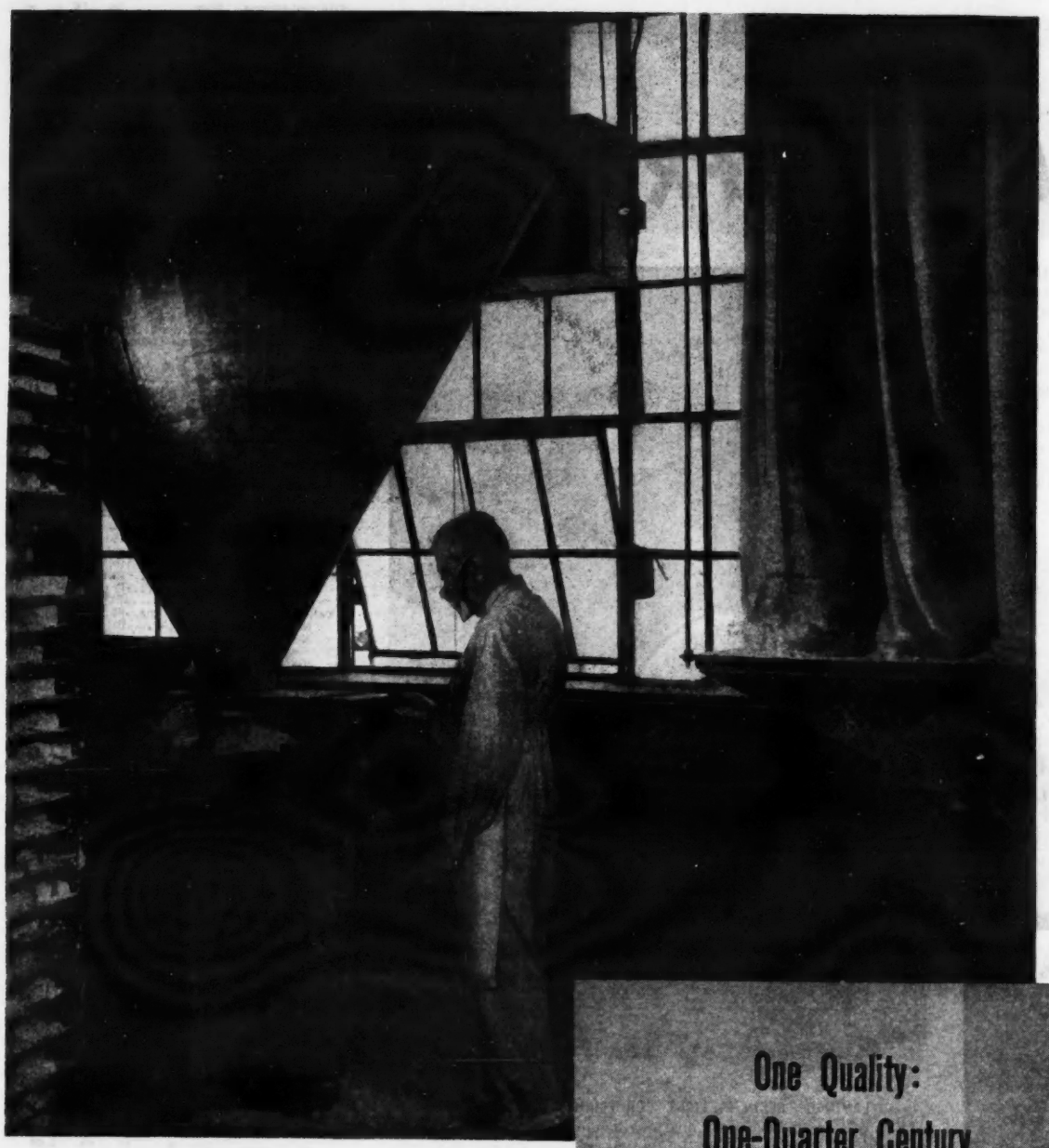
Yellow—

67	Amidoazotoluene yellow	lb.	.75 - —
655	Auramine	lb.	2.00 - —
800	Chinolin yellow SS	lb.	2.00 - —

Violet—

680	Methyl violet base	lb.	.85 - —

Dyes, natural (see name of article).



WRITE FOR SAMPLES AND PRICES

Franks Stearates

Division

WITCO CHEMICAL COMPANY

295 Madison Avenue, • New York 17, N. Y.

One Quality: One-Quarter Century

For more than 25 years Franks Stearates have been produced in *one* quality —*the very highest*. This has created a constantly growing demand which in turn, has resulted in ever-increasing production of Witco quality stearates.

All Witco stearates . . . aluminum, barium, calcium, lead, lithium, magnesium, sodium and zinc . . . are produced under rigidly controlled conditions and are maintained in strategically located centers for efficient delivery.

E

Echinacea root, bls	lb.	.70 - .75	
Egg, albumen (see Albumen).			
Yolk, dried, dom., bbls	lb.	1.10 - 1.16	
imported	lb.	No stocks	
Elecampane root, bls	lb.	.45 - .50	
Elm bark, grinding, bls	lb.	.35 - .36	
powd., bbls., bxs	lb.	.55 - .56	
select, bndls	lb.	.55 - .56	
Emetine hydrochloride, bots	oz.	53.50 - 54.00	
Ephedra, bls	lb.	.28 - .30	
Ephedrine, natural, USP, anhydrous, bots	oz.	1.15 - 1.45	
Hydrochloride, tins	oz.	.95 - 1.45	
Sulphate, tins	oz.	.95 - 1.45	
100 ozs	oz.	.85 - —	
synthetic, USP, anhydrous, bots.			
hydrous, bots., 100 oz	oz.	.85 - —	
Hydrochloride, tin. 100 ozs	oz.	.50 - —	
Sulphate, cryst., tins, 100 ozs.	oz.	.48 - —	
Epinephrine, synth., USP, bots	grms.	.70 - .95	
Epsom salt, tech., cryst., bgs., c.l.	100 lbs.	1.80 - 1.95	
l.c.l.	100 lbs.	2.15 - 2.40	
dried, bgs	lb.	.03½- —	
l.c.l., bgs	lb.	.04 - .07	
USP, cryst., bgs., l.c.l.	100 lbs.	2.00 - —	
l.c.l., 5,000 lbs., 1 withdrawal	100 lbs.	2.25 - —	
smaller lots	100 lbs.	2.50 - —	
bbls., c.l.	100 lbs.	2.10 - —	
l.c.l., 5,000 lbs., 1 withdrawal	100 lbs.	2.35 - —	
smaller lots	100 lbs.	2.60 - —	
kgs., c.l.	100 lbs.	2.35 - —	
l.c.l., 5,000 lbs., 1 withdrawal	100 lbs.	2.60 - —	
kgs., smaller lots	100 lbs.	2.85 - —	

Epsom salt prices freight equalized with Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland, Houston, New Orleans, New York.

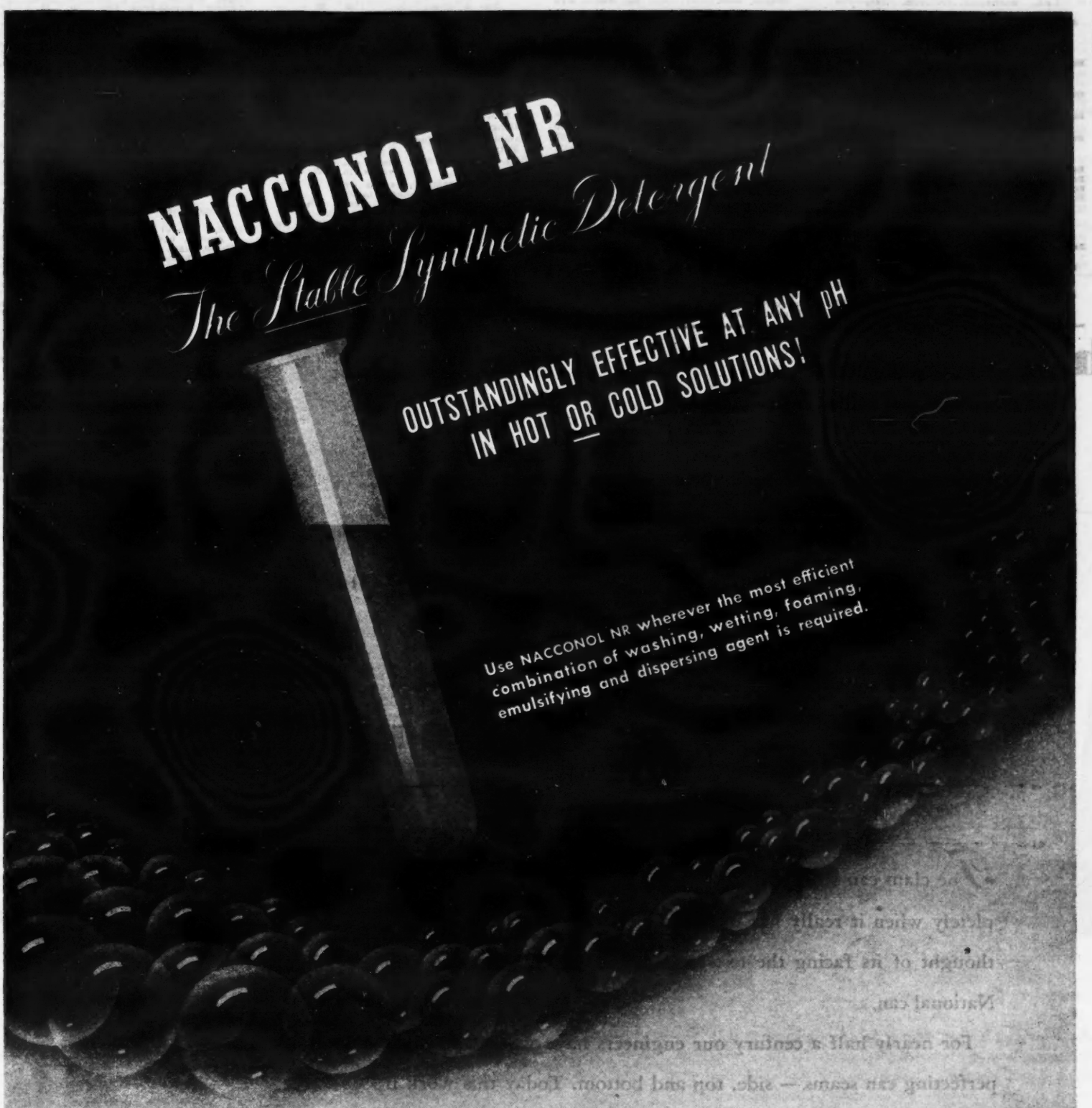
Ergot, USP, cns	lb.	1.55 - 1.60	
Eserine, bots	oz.	No prices	
Sulphate, bots	oz.	65.00 - —	
Ether, acetic (see Ethyl acetate).			
Amyl (see Amyl ether).			
Butyl, l.c.l., dms., dlvd	lb.	.30 - —	
Ethyl (see Ether, sulphuric).			
Nitrous, cons., bots., 100 lbs.	lb.	.98 - 1.16	
Sulphuric, cons., dms	lb.	.11 - .16	
USP anesthesia, hospitals, 1-lb. cns	lb.	60 - .61	
Synthetic, dms., c.l., frt. alld.	lb.	.11 - —	
l.c.l., same basis	lb.	.12 - —	
tanks, same basis	lb.	.09 - —	
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld.	lb.	.1548- —	
l.c.l., frt. alld.	lb.	.1598- —	
tanks, frt. alld.	lb.	.1448- —	
95-98%, dms., c.l., frt. alld.	lb.	.1607- —	
l.c.l., frt. alld.	lb.	.1657- —	
tanks, frt. alld.	lb.	.1507- —	
99%, dms., c.l., frt. alld.	lb.	.1626- —	
l.c.l., frt. alld.	lb.	.1676- —	
tanks, frt. alld.	lb.	.1526- —	
N.F., dms.	lb.	.14½- 15½	
synthetic, 85-90%, dms., c.l., frt. alld.	lb.	.09½- —	
l.c.l., frt. alld.	lb.	.10 - —	
tanks, frt. alld.	lb.	.06½- —	
95-98%, dms., c.l., frt. alld.	lb.	.09¾- —	
l.c.l., frt. alld.	lb.	.10¼- —	
tanks, frt. alld.	lb.	.08½- —	
Acetoacetate, dms., c.s., works.	lb.	.87½- —	
l.c.l., frt. alld.	lb.	.35 - —	
Benzoate, bots	lb.	.50 - .53	
B-ethoxy propionate, dms., works	lb	.70 - —	
Bromide, tech., dms	lb.	.50 - .56	
Carbamate, dms., dlvd. E.	lb.	.58 - —	
Chloride, tech., dms	lb.	.18 - .20	
USP, bbls., cyl	lb.	.20 - .22	
Cinnamate, cns	lb.	2.65 - 3.60	
Formate, dms., Agnue, Calif.	lb.	.26 - .32	
Iodide, bots	lb.	3.50 - 3.60	
Lactate, dms., works	lb.	.33½- .39½	
Myristate, dms., works	lb.	.55 - —	
Oenanthate, dms	lb.	1.10 - 1.15	
Oleate, dms., l.c.l., works	lb.	.47 - —	
Oxalate, dms., frt. alld	lb.	.33 - —	
Silicate, dist. (see Tetraethyl orthosilicate).			
40% available SiO_2, dms., works	lb	.50 - —	
Ethylcellulose, pkgs., 5,000 lbs. or more, works	lb.	.40 - —	
smaller lots, works	lb.	.52 - .60	
Ethyldiethanolamine, dms., l.c.l., works	lb.	.80 - —	
Ethylene, dichloride, dms., c.l., works, frt. alld. E. of Rockies	lb.	.0642- —	
West of Rockies	lb.	.0691- —	
l.c.l., works, frt. alld. E. of Rockies	lb.	.0691- —	
West of Rockies	lb.	.0941- —	
tanks, frt. alld. E. of Rockies,	lb.	.0743- —	
West of Rockies	lb.	.0792- —	

Trichloride (see Trichloroethane).

NACCONOL NR

The Stable Synthetic Detergent

OUTSTANDINGLY EFFECTIVE AT ANY pH
IN HOT OR COLD SOLUTIONS!



Use NACCONOL NR wherever the most efficient combination of washing, wetting, foaming, emulsifying and dispersing agent is required.

National Aniline developed America's first synthetic-organic detergent, NACCONOL NR. stable synthetic organic detergent and today Our unmatched technical experience in this is America's oldest and largest field and unequalled production facili- producer of the most widely-used ties are at your service.

National Aniline

DIVISION OF
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET NEW YORK 6, N. Y.

Ethyleneglycol, dms., c.l., frt. alld. in E...	lb.	.10	—
l.c.l., same basis	lb.	.11	—
tanks, same basis	lb.	.00	—
Isobutylether, dms., c.l., wks.	lb.	.17½	—
l.c.l., works	lb.	.18½	—
tanks, works	lb.	.16½	—
Monoethylether, dms., c.l., works	lb.	.15½	—
l.c.l., works	lb.	.16½	—
tanks, works	lb.	.14½	—
Monoethylether acetate, dms., c.l., works	lb.	.13½	—
l.c.l., works	lb.	.14½	—
tanks, works	lb.	.12½	—
Monomethylether, dmb., c.l., works	lb.	.16½	—
l.c.l., works	lb.	.17½	—
tanks, works	lb.	.15½	—
Ethylethanolamine, dms., c.l., wks.	lb.	.57	—
l.c.l., works	lb.	.60	—
Ethylmonoethanolamine, l.c.l., dms., works	lb.	.90	—
Ethylmorphine, hydrochloride, bots.	oz.	10.50	-10.75
Ethylvanillin,[1] cns., 5 lbs. or more	lb.	5.25	—
smaller lots	lb.	5.50	- 5.60
Eucalyptol, cns., dms.	lb.	2.85	- 2.95
Eucalyptus leaves, bls.	lb.	.14	- .15
Eugenol, pure, USP XII	lb.	2.90	- 2.95
Euphorbia, bls.	lb.	.20	- .22

F

Feldspar, enamel, 100 mesh	ton.	17.00	-20.00
bulk, c.l.	ton.	14.00	-17.00
glass, 20 mesh, bgs., works, min. 2 tons	ton.	12.75	-16.25
bulk, c.l.	ton.	9.75	-12.25
pottery, bgs., l.c.l., works, min. 2 tons	ton.	26.00	32.00
bulk, c.l., works	ton.	17.00	18.00
Fennel seed, Argentine, bgs., futures	lb.	.15½	.16
Indian, bgs., afloat	lb.	.15	- .15½
Fenugreek, domestic, futures, bgs., scarce	lb.	.09	- .09½
Indian, bgs.	lb.	.09	- .09½
Morocco, bgs.	lb.	.09½	- .10
Ferric sulphate (see Iron sulphate, ferric).			
Film scrap, colored, cs., works	lb.	.13½	- .15
water-white, cs., works	lb.	.14½	- .17
Fir balsam, Canada, cns.	gal.	20.00	-20.25
Oregon, bbls.	gal.	2.65	- 2.70
Fishberries, bgs.	lb.	.24	- .25
Fishliver oils (see Oil, fishliver).			
Fishmeal, grd., 60% protein, bgs., E. works	ton.	89.50	—
65% protein, bgs., E. works	ton.	95.50	—
Fishscrap, dried, 60% protein, bulk, East coast	ton.	84.00	—
Flake white, bbls.	lb.	.09	—
kegs	lb.	.11	—
Flaxseed, black, bgs.	lb.	.55	- .60
Blonde, bgs.	lb.	.51	- .53
Fluorspar,[1] No. 1, ground, 95-98% CaF_2, bulk, c.l., mines, net	ton.	37.00	—
washed, gravel, 70% or more CaF_2, c.l., bulk, mines	ton.	33.00	—
65%, c.l., bulk, mines	ton.	32.00	—
60%, c.l., bulk, mines	ton.	31.00	—
less than 60%, c.l., bulk, mines	ton.	30.00	—
Formaldehyde,[1] bbls., c.l., works	lb.	.0520	—
l.c.l., works	lb.	.0570	—
dms., extra, c.l., works	lb.	.0460	—
l.c.l., works	lb.	.0510	—
tanks, works	lb.	.0230	—
tanktrucks, dlvd., N.Y.C.	lb.	.0245	—
Fringetree bark, bls.	lb.	.75	- .75
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines	ton.	8.50	-15.00
Tex. mines	ton.	12.50	—
spent, bulk, Bayonne	ton.	3.00	—
imp., bgs., c.l.	ton.	30.00	-40.00
Furfural, ref., dms., c.l., works	lb.	.15½	—
cns., dms., l.c.l., works	lb.	.18½	- .25½
tech., dm., c.l., works	lb.	.13	—
l.c.l., cns., dms.	lb.	.15½	- .20½
tanks, works	lb.	.09½	—
Fustic ex tract, cryst., No. 1, bbls., l.c.l.	lb.	.35	—
No. 1A, bbls., l.c.l.	lb.	.34	—
No. 2, bbls., l.c.l.	lb.	.33	—
No. 3, bbls., l.c.l.	lb.	.31	—
liquid, No. 0, bbls., l.c.l.	lb.	.19	—
No. 1, bbls., l.c.l.	lb.	.17½	—
No. 2, bbls., l.c.l.	lb.	.16½	—
No. 3, bbls., l.c.l.	lb.	.14	—
solid, No. 1, bxs., l.c.l.	lb.	.20½	—

G

G salt, bbls.	lb.	.45	—
Galangal root, bls., futures	lb.	.30	- .31
Gambier, cube, Singapore, cs.	lb.	No stocks	
Extract, bbls.	lb.	No stocks	
Gammapicoline 95%, dms., c.l., works	lb.	1.35	—
Gasoline, at refinery, ex tax Arkansas 73-75 octane, tanks	gal.	.08½	—
Bayonne, 74 octane, tanks	gal.	.0780	.00
Gulf Coast, 73-75 octane, tanks	gal.	.06¼	- .07¼
Group 3, 73-75 octane, tanks	gal.	.06½	- .07
Pennsylvania, western, U. S. motor 74 octane, loaded, tanks	gal.	.07½	- .08½
natural, 26/70 octane, Group 3, tanks	gal.	.06	—
Gelatin, silver label, cns., dlvd.	lb.	.90	- .97
export, cs.	lb.	1.00	—

Silver label prices 5c. higher for deliveries in Aris., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash. and Wyo.

Gelsemium root, bls.	lb.	.35	- .40
Gentian root, bls.	lb.	.29	- .30
grd., bbls., bxs.	lb.	.35	- .36
powd., bbls., bxs.	lb.	.34	- .35
Geraniol, 92-96%, cns., dms.	lb.	No prices	
Geranyl acetate, cns.	lb.	No prices	
Ginger, African, No. 1, bls.	lb.	.15½	- .16
Calicut, Romeo-type, bgs.	lb.	.16	- .16½
Cochin, bleached, bgs.	lb.	.16½	- .17
unbleached, bgs.	lb.	.15½	- .16
Jamaica, No. 1, bgs.	lb.	.23	- .23½
No. 2, bgs.	lb.	.16	- .16½
No. 3, bgs.	lb.	.15	- .15½
Rhattoon, bgs.	lb.	.14	- .14½
Glaubers salt, anhyd. (see Soda sulphate), cryst., bgs., bbls., works, 100 lbs.		1.65	- 1.45
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest	lb.	.16	- .23
40/50, bgs., c.l., same basis	lb.	.15½	- .22½
58/62, bgs., c.l., same basis	lb.	.17	- .24
82/100, bgs., c.l., same basis	lb.	.18½	- .25½
Bone glue, l.c.l. prices 1c. higher than c.l.			
Hide,[1] 100-121 (jelly test in grams), bgs., c.l., dlvd.	lb.	.14	- .21½
122-149, bgs., c.l., dlvd.	lb.	.15	- .22½
150-177, bgs., c.l., dlvd.	lb.	.16	- .23½
178-206, bgs., c.l., dlvd.	lb.	.17	- .24½
207-236, bgs., c.l., dlvd.	lb.	.18	- .25½
237-263, bgs., c.l., dlvd.	lb.	.19	- .26½
207-295, bgs., c.l., dlvd.	lb.	.20	- .27½
296-320, bgs., c.l., dlvd.	lb.	.21	- .28½
321-352, bgs., c.l., dlvd.	lb.	.22	- .29½
353-384, bgs., c.l., dlvd.	lb.	.23	- .30½
385-427, bgs., c.l., dlvd.	lb.	.24	- .31½
428-460, bgs., c.l., dlvd.	lb.	.25	- .32½
461-494, bgs., c.l., dlvd.	lb.	.26	- .33½
495-529, bgs., c.l., dlvd.	lb.	.27	- .34½

Hide glue l.c.l., prices 1c. higher than c.l. bbls., ½c. over bgs.

Glycerin, crude, saponification, 88%, to refiners, tanks	lb.	.12¾	—
soaplye, 80%, tanks	lb.	.11½	—
dynamite, dms., c.l.	lb.	.17½	- .18¼
l.c.l.	lb.	.18	- .18¾
tanks	lb.	.17¾	- .18
high gravity, dms., c.l.	lb.	.17½	- .18½
l.c.l.	lb.	.18	- .18¾
tanks	lb.	.17¼	- .18
refined, E.P., 98%, dms., c.l.	lb.	.18¾	—
tanks	lb.	.18½	—
USP, 95%, dms., c.l.	lb.	.19¼	—
tanks	lb.	.18	—
yellow, distilled, dms., c.l.	lb.	.17¾	—
tanks	lb.	.17¾	—
Glycine, USP (see Acid, aminoacetic).			
Glycol boriborate, dms.	lb.	.22	—
Stearate, dms.	lb.	.26	—
Gold chloride, acid-brown, bots.	oz.	20.75	-21.00
acid-yellow, bots.	oz.	18.75	-19.00
Gold-soda chloride, photo., bots.	oz.	13.00	—
USP IX, bots.	oz.	14.50	-14.75
Goldenseal root, bls.	lb.	8.75	- 9.00
powd., bxs.	lb.	9.25	- 9.50
Gold of pleasure seed, bgs.	lb.	No stocks	
Grains of paradise, bgs.	lb.	.45	- .46
Graphite, dom., crystalline, 80% through 50 mesh, graphitic carbon content 65-70%, bgs., whse.	lb.	.04½	—
70-75%, bgs., same basis	lb.	.05	—
75-80%, same basis	lb.	.05½	—
80-85%, bgs., same basis	lb.	.06	—
85-90%, bgs., same basis	lb.	.07	—
90% and up, same basis	lb.	.08	—
imported, amorphous, powd., dlvd.	lb.	.04	- .06
crystalline, 85-90%, powd., same basis	lb.	.14	- .16
90-92%, powd., same basis	lb.	.16	- .19
97% powd., same basis	lb.	.22	- .25
flake, No. 1, 90-95%, 200-lb. crtns, same basis	lb.	.21	- .22
No. 2, same basis	lb.	.23	- .24
Grease, house,[1,7] loose	lb.	.06¼	Nom.
White, choice, loose	lb.	.08¾	Nom.
Wool (see Adeps lanae and Degras).			
Green, brilliant,[1] thioflavin toner, molybdic, kgs., works	lb.	2.25	—
tungstic, kgs., works	lb.	2.75	—
Chrome,[1] CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis	lb.	.26	—
6-10%, bbls., same basis	lb.	.27	—
11-15%, bbls., same basis	lb.	.28	—
16-20%, bbls., same basis	lb.	.28½	—
21-25%, bbls., same basis	lb.	.29¼	—
26-30%, bbls., same basis	lb.	.29¾	—
31-35%, bbls., same basis	lb.	.30¾	—
36-40%, bbls., same basis	lb.	.32½	—
41-45%, bbls., same basis	lb.	.34	—
46-50%, bbls., same basis	lb.	.35¾	—
50% and over, bbls., same basis	lb.	.36¾	—
reduced color, 5%, bbls., same basis	lb.	.07	—
6-10%, bbls., same basis	lb.	.07¾	—
11-13%, bbls., same basis	lb.	.08¼	—
14-16%, bbls., same basis	lb.	.09	—
17-19%, bbls., same basis	lb.	.09½	—
20-21%, bbls., same basis	lb.	.09½	—
22-23%, bbls., same basis	lb.	.09¾	—
24-25%, bbls., same basis	lb.	.10	—
26-27%, bbls., same basis	lb.	.10½	—
28-29%, bbls., same basis	lb.	.11	—
30-31%, bbls., same basis	lb.	.12	—
32-33%, bbls., same basis	lb.	.12¼	—
34-35%, bbls., same basis	lb.	.14¼	—
36-40%, bbls., same basis	lb.	.17	—
41-45%, bbls., same basis	lb.	.19¼	—
46-50%, bbls., same basis	lb.	.19¾	—
51-55%, bbls., same basis	lb.	.20½	—
56-60%, bbls., same basis	lb.	.21	—
61-65%, bbls., same basis	lb.	.22	—
66-70%, bbls., same basis	lb.	.23¼	—

Chrome green prices are ¼c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City and Wichita, prices are equalized with Chicago.

how tight is a clam?

The clam can seal itself off from the outside world quite completely when it really has its heart in it. But we shudder at the thought of its facing the tests we impose on the seams of each National can.

For nearly half a century our engineers have worked towards perfecting can seams — side, top and bottom. Today this work is paying off in the quality of National cans.

This is just one of many ways in which our laboratories are doing something tangible to protect your product.

NATIONAL CAN CORPORATION

EXECUTIVE OFFICES: 110 EAST 42nd STREET, NEW YORK 17, N. Y.

Sales Offices and Plants: Baltimore, Md. • Chicago, Ill. • Hamilton, Ohio • Boston, Mass. Detroit, Michigan • Indianapolis, Ind. • Maspeth, New York • McKeesport, Pa. • St. Louis, Mo.

Green, chrome oxide, pure, dms., works..lb. .27½- .30
Malachite, thioflavin toner, molybdic, bbls., works..lb. 3.00 - —
tungstic, bbls., works.....lb. 3.50 - —
Phthalocyanin,[1] tetrahydroxide (hydrated chromium oxide), bbls., works...lb. .85 - —
toner, bbls works.....lb. 4.00 - 5.00
Paris (see P).
Tungstated, brilliant, kgs...lb. 3.00 - 4.00
emerald, kgs.....lb. 2.60 - —
Verdigris (see V).

Green dyes (see Dyes, coaltar).

Grindelia robusta, bls.....lb. .21 - .22

Guaiac, resin, cs.....lb. .32 - .34
Wood, bls.....lb. .35 - .36

Guaiacol, cryst., N.F., tins...lb. 1.60 - 1.65
Liquid, N.F., bots., cbys....lb. 1.60 - 1.84
Carbonate, dms.....lb. 2.40 - 2.46

Guarana, powd., cs.....lb. 2.00 - 2.10

Gum accroides (see Gum, yacca).
Aloe (see A).
Ammoniac, tears, cs.....lb. .90 - .95
Arabic, amber, sorts, bgs....lb. .14¼- .14¾
white, sorts, 1, bgs.....lb. .28 - .29
Asphaltum (see A).
Asafetida (see A).
Benzoin, Sumatra, cs.....lb. 1.00 - 1.70
Camphor (see C).

Copal, Congo (former dollar-and-cent ceilings revoked Feb. 2. New ceiling prices are to be based on prices to be paid by importers in the Belgian Congo plus landed costs, as determined by a formula under the new import regulations).

East India (former dollar-and-cents ceilings on all other copals revoked May 21. New ceiling prices are to be figured on same basis as Congo).

Manila, No. 1, hard, bold, amber, light, bskts, c.l., whse..lb. .25 - —

Dammar (former dollar-and-cent ceiling on Batavia and Singapore revoked May 21. New ceiling prices are to be figured on same basis as copals).

Elemi (former dollar-and-cent ceilings on elemi revoked May 21. New ceiling prices to be figured on same basis as copals).

Ester,[7] gum-resin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. England States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va..lb. .1300- —
l.c.l., dlvd., Ill., etc.....lb. .1325- —
other points, same basis. lb. .1400- —

wood-rosin type, dms., c.l., dlvd. Ill., Ind., etc..lb. .1050- .1074

Euphorbium, cs.....lb. 1.50 Nom.
Galbanum, cs.....lb. .95 - 1.00
Gamboge, pipes, cs.....lb. 2.00 - 2.05
powd., bbls.....lb. 2.25 - 2.30
Ghatti, bgs.....lb. No stocks
Guaiac (see Guaiac resin).
Karaya, bbls., bxs., dms....lb. .21 - .50

Kauri (former dollar-and-cent ceilings revoked May 21. New ceiling prices are to be based on prices to be figured on same basis as copals).

Locust bean, powd., bbls....lb. .50 - .60
Mastic, cs.....lb. 3.25 - 3.30
Myrrh, cs.....lb. .48 - .50
Olibanum, siftings, cs.....lb. .12 - .13
tears, cs.....lb. .27 - .45
Opium (see O).
Red (see Gum yacca).
Rosin (see R).
Sandarac, bgs.....lb. .90 - .95
Scammony, cs.....lb. 1.50 - 1.55
Talha, bgs.....lb. .10 - .11
Tragacanth, No. 1, cs.....lb. 5.00 - 5.25
No. 2, cs.....lb. 3.65 - 3.90
No. 3, cs.....lb. 3.20 - 3.45

Yacca (former dollar-and-cent ceiling prices revoked May 21. New ceiling prices to be figured on same basis as copals).

Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald..ton.22.65 - —
Harlem River, N. Y., frt. equald..ton.28.25 - —
Medicine Lodge, Kan., frt. equald..ton.17.00 - —
New Brighton, N. Y., frt. equald..ton.30.65 - —
Southard, Okla., frt. equald..ton.17.00 - —
Sweetwater, Tex., frt. equald..ton.21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald. ton.12.50 - —
Blue Rapids, Kan., frt. equald..ton.10.50 - —
Harlem River, N. Y., frt. equald..ton.12.00 - —
Medicine Lodge, Kan., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald..ton.13.00 - —
Southard, Okla., frt. equald. ton.12.50 - —
Sweetwater, Tex., frt. equald..ton.12.50 - —
Stucco, paper bgs., c.l., Acme, Texas, Akron, N. Y.; Blue Rapids, Kan.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, Ohio; Harlem River, N.Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Ga.; Portsmouth, N. H.; Roton, Tex.; Southard, Okla.; Sweetwater, Tex.; frt. equald..ton. 8.00 - —
Saltville, Va., frt. equald. ton. 9.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y., New Brighton, N. Y., same basis..ton 14.40 - —

H

Hawthorn berries, bgs.....lb. .60 - .65
Heliotropin, cryst., cns.....lb. 2.95 - 4.00
Hellebore, white, powd., bbls..lb. .46 - .47
Helonias root, bls.....lb. 2.25 - 2.30
Hematine extract, cryst., No. 6, bbls., l.c.l..lb. .41 -
No. 1, bbls., l.c.l.....lb. .40 - —
No. 1A, bbls., l.c.l.....lb. .37 - —
No. 2, bbls., l.c.l.....lb. .36 - —
No. 3, bbls., l.c.l.....lb. .34 - —
No. 4, bbls., l.c.l.....lb. .32 - —
No. 5, bbls., l.c.l.....lb. .30 - —
paste, No. 1, bbls., l.c.l.....lb. .17½- —
No. 2, bbls., l.c.l.....lb. .16½- —
No. 3, bbls., l.c.l.....lb. .15½- —
red, No. 4, bbls., l.c.l.....lb. .14½- —
Hemlock bark extract, 25% tan, bbls., c.l., works..lb. No stocks
tanks, works.....lb. No stocks
Henbane leaves, bls.....lb. 1.00 - 1.75
Henna leaves, bls.....lb. .20 - .26
powd., bbls., bxs.....lb. .84 - .86
Heptane,[1] industrial grade, 50°-100° C., dms., c.l., Group 3, gal. .12½- —
l.c.l., Group 3.....gal. .19 - —
tanks, Group 3.....gal. .10½- —
77°-115° C., dms., c.l., Group 3..gal. .13 - —
l.c.l., Group 3.....gal. .19 - —
tanks, Group 3.....gal. .10½- —
laboratory grade, dms., c.l., Group 3-gal. .16 - —
l.c.l., Group 3.....gal. .20 - .55
Hexalin (see cyclohexanol).
Hexamethylenetetramine,[1] tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .24 - —
smaller lots, same basis..lb. .25 - —
USP, dms., 500 lbs. or more, same basis..lb. .35 - —
smaller lots, same basis..lb. .36 - —
Hexane,[1] 60°-70° C., industrial grades, dms., c.l., Group 3, gal. .13½- —
l.c.l., Group 3.....gal. .1y - —
tanks, Group 3.....gal. .10½- .11
laboratory grade, dms., c.l., Group 3..gal. .16 - —
l.c.l., Group 3.....gal. .20 - .55
Hexanol, normal, dms., l.c.l., works..lb. .25 - —
Homatropine hydrobromide, bots. oz.15.00 -25.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago..unit-ton. 8.00 - 9.00
Hops, NF, bls.....lb. .56 - 1.50
Horehound, bls.....lb. .12¼- 1?
Hydrangea root, bls.....lb. .22 - .25
Hydrastine, alkaloid, bots....oz.20.00 -22.00
Hydrochloride, bots.....oz.29.00 -22.00
Sulphate, bots.....oz.29.00 -32.00
Hydrastinine, 10-gr. bots....bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. cns., works..lb. .36 - .40
Hydrogen peroxide, USP, bbls. lb. .03¾- .04
100 vols., cbys., E. of Miss. River or West coast via Panama Canal..lb. .15½- .18½
Hydroquinone, bbls., dms.....lb. .90 - .94
Hydroxycitronellal, cns.....lb. No prices
dms., extra, ret'able, dlvd...lb. No prices
Hyoscine hydrobromide, bots..oz.39.00 -45.00
Hyoscyamine, bots.....oz.18.00 -20.00
Hydrobromide, bots.....oz.18.00 -19.50
Sulphate, bots.....oz.14.00 -19.50
Hypernic extract, cryst., No. 1, bbls., l.c.l..lb. .42 - —
No. 2, bbls., l.c.l.....lb. .34 - —
liquid, No. 1, bbls., l.c.l..lb. .34 - —
No. 2, bbls., l.c.l.....lb. .19 - —
solid, No. 1, bxs., l.c.l....lb. .30 - —
Hyssop, bgs.....lb. .60 - .61
leaves, bgs.....lb. .69 - .70

I

Iceland moss, bgs.....lb. .50 - .52
Ichthammol, NF, bots.....lb. 2.4? - —
Indian red (see Red, Indian).
Indigo, nat., chests.....lb. 2.14 - 2.30
synth., paste, bots.....lb. .16½- .19
powd., bbls.....lb. .74¼- .85
Indol, CP, bots.....lb.19.00 -22.00
Insect flowers (see Pyrethrum).
Iodine, crude, 25-lb. jars....lb. 1.67 - —
150-lb. kgs.....lb. 1.25½- —
resubl., 5-lb. bots., jars.....lb. 1.75 - 1.85
Iodoform, 100-lb. dms., kgs....lb. 3.95 - 4.10
25-lb. jars or lb. dms.....lb. 4.20 - —
Ionone, ketones, bot.....lb. 6.00 - 9.50
Methyl, bot.....lb. 6.25 -12.00
Ipecac root, bgs.....lb. 5.50 - 5.75
powd., bgs.....lb. 5.75 - 6.00
Irish moss, bleached, prime...lb. .25 - .30
Iron acetate, liquor, bbls., c.l., dlvd..lb. .17 - —
l.c.l., dlvd.....lb. .18 - —
solut., USP IX, 100-lb. cbys.lb. .17 - —
50-lb. djns.....lb. .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works.100 lbs. 4.90 - 5.25
l.c.l., works.....100 lbs. 6.50 - 6.75
cryst., tech., bbls., works, frt. alld..100 lbs. 4.00 - 6.00
USP X, lump, bbls.....lb .07 - .08¼
solut., 42 Be, cbys., works, frt. alld. or equald..lb. .06½- .06
djns., same basis.....lb. .10 - —
Citrate, USP VIII, gran., dms., lb. .70 - .75
powd., cns.....lb. .84 - .87
Glycerophosphate, bbls.....lb. 3.40 - 3.52
Hypophosphite, bbls., dms..lb. 1.50 - 1.52
Iodide, bots.....lb. 3.18 - 3.22
Naphthenate, 6% Fe, 50-gal. dms..lb. .16½- .17½
Nitrate, red, tech., dms.....lb. .03½- .04
Oxalate, gran., dms.....lb. .85 - .86
powd., cns.....lb. .52 - —
kgs.....lb. .47 - .49

Acetyl Salicylic Acid

—now packaged in

LEVERPAK DRUMS

with new, easy-to-read labels

Dow announces a new serviceable package for Acetyl Salicylic Acid. This essential chemical is now shipped to manufacturers in light, durable Leverpak drums. Every drum is distinctly labeled. The various forms of Acetyl Salicylic Acid are easily recognized by labels of different colors.

This is another example of the outstanding service which Dow, for many years one of the foremost producers of Acetyl Salicylic Acid, is performing for the pharmaceutical industry.

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DOW Pharmaceutical *Chemicals:*

Acetanilid, U.S.P.; Acetphenetidin, U.S.P.; Bromides; Chloroform, U.S.P.; Epsom Salt, U.S.P.; Iodine; Phenol, U.S.P.; Salicylates; dl-Tryptophane—and more than 85 others.

DOW
CHEMICALS
INDISPENSABLE TO INDUSTRY

Iron phosphate, soluble, NF, gran., cs..lb. .54 - .57
Pyrophosphate, gran., cns...lb. .59 - .63
Reduced, 80%, kgs.....lb. .65 - .75
Resinate, 7.4% Fe, 100-lb. dms. lb. .17¼ -
Sulphate (ferric), anhyd., bgs., c.l., works..ton.36.00 - —
l.c.l., works .....ton.40.00 - —
partially hydrated bgs., c.l., works..ton.26.50 - —
(ferrous) tech. (see Copperas).
USP, cryst., bbls., dms..lb. .06¼- .11
Tallate, 4% Fe, 50-gal. dms..lb. .10¼- —
Iron-ammonia citrate, brown, green, gran., pearls, dms.lb. .33 - .38
scale, dms. .....lb. .49 - .53
Oxalate, bbls. .....lb. .23½- —
dms., kgs. .....lb .25½- .26½
Iron-soda oxalate, bbls., dms.lb. .23½- .26½
Isobornyl acetate, cns., works.lb. .30 - .36
Isobornyl thiocyanoacetate, dms., c.l., works..gal. 4.35 - —
l.c.l., works .....gal. 4.45 - 4.55
tanks, works .....gal. 4.25 - —
Isobutyl acetate, cns.....lb. 1.10 - —
Propionate, cns. .....lb. No prices
Isoeugenol, cns., works.....lb. 3.75 - 4.25
Isopentane, dms., works.....lb. .45 - .55
Isophorone, dms., c.l., works..lb. .21 - —
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., E. of Rockies, frt. alld.lb. .10½- —
l.c.l. E. of Rockies, same basis..lb. .11 - —
tanks, E. of Rockies, same basis..lb. .09½- —
Alcohol (see Alcohol, Isopropyl).
Ether, dms., c.l., divd.....lb. .06 - —
l.c.l. .....lb. .06½- —
tanks, divd. .....lb. .04½- —
Isopropylamine, dms., works..lb. .25 - —

J

Jaborandi leaves, bls.....lb. .30 - .31
Jalap root, NF, bls.....lb. .37 - .52
powd., bbls., bxs.....lb. .43 - .56
Resin, lump, cns.....lb. 5.85 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, bgs.....lb. .22 - .25
Juniper tar, USP, dms.....lb. .63 - 1.00

K

Kamala, powd., cns.....lb. .46 - .48
Kaolin (see China clay).
Kava kava root, bls.....lb. .28 - .30
Kerosene, at refinery: Ark., 42-44 w.w., tanks..gal. .05 - —
Bayonne, 41-43, w.w., tanks..gal. .061 - —
California, 40-43 w.w., tanks. gal. .07 - —
Gulf ports, 41-43 w.w., tanks. gal. .04¾- .05
Okla.-Tex., 41-43 w.w., tanks. gal. .04875- —
Penn., 45 w.w., tanks....gal. .0655- .0705
47 w.w., tanks.....gal. .0705- —
Kola nuts, bgs.....lb. .10 - .11
Kyanite, imp., low iron content, 10-mesh, whse..ton.85.00 -95.00
calcined, grain, 10-mesh, whse. ton.95.00 -105.00

L

Ladyslipper root, bls.....lb. 1.35 - 1.40
Lanolin (see Adeps lanae).
Lard, ref., tierces, c.l.....lb. No prices
prime steam, tierces, c.l.....lb. No prices
Larkspur seed, bgs.....lb. .80 - .82
Laurel berries, bls.....lb. .25 - .26
Leaves, Cyprus, bls.....lb. .18½- .19
Greek, bls.....lb. .19½- .20
Portuguese, futures, bls....lb. .15½- .16
good, bls. .....lb. .16 - .16½
Turkish, bls., futures.....lb. .15¼- .16
Lavender flowers, medium, bls.lb. .60 - .65
ordinary, bls.....lb. .35 - .43
select, bls.....lb. .65 - .70
Lead, acetate,[1] white, broken. bbls..lb. .12½- —
cryst., bbls.....lb. .12½- —
gran., powd., bbls.....lb. .13¼- —
Arsenate,[1] basic powder, 8-lb. bgs. or larger, c.l..lb. .14 - —
l.c.l. .....lb. .14½- —
1-lb. ctns., c.l.....lb. .24 - —
l.c.l. .....lb. .24½- —
standard, paste, cns., c.l...lb. .06¾- —
l.c.l. .....lb. .07 - —
Lead arsenate prices are works or whse. basis, frt. alld. to dest.
Blue, basic sulphate, bbls., c.l., 20-ton lots, divd. E..lb. .06½- —
divd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo..lb. .06¾- —
l.c.l., divd. E.....lb. .06¾- —
divd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo..lb. .09 - —
Carbonate (see Lead, white).
Chloride, fib. dms.....lb. .49 - —
Iodide, NF V, bots.....lb. 2.80 - —
jars .....lb. 2.60
Linoleate, pale, precip., bbls.lb. .22½- —
Metal,[1,2] (see Protective Coatings Materials market).
Metallic paste, dms., works..lb. No stocks
Naphthenate, 24%-30% Pb...lb. .16 - .19½
Nitrate, bbls.....lb. .12¾- —
Oleate, bbls.....lb. .17¾- —
Lead, peroxide, powd., tech., bbls. lb. .23 - .28
Red, 95% Pb_3O_4, or less, bbls., c.l. (20 tons), divd. Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo., and E. of Cascade Mts., in Ore. and Wash..lb. .11 - —
other points.....lb. .10¾- —
l.c.l., 5 tons, divd. Ala., Cal., Fla., Ga., La., Miss., Tex., and W. of Cascade Mts. in Ore. and Wash..lb. .11½- —
Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash..lb. .12 - —
Colo., Mont., N. Mex., Wyo..lb. .11¾- —
other points.....lb. .11¾- —
smaller lots, Ala., etc.lb. .12 - —
Ariz., etc.....lb. .12¼- —
Colo., etc.....lb. .12¼- —
other points.....lb. .11¾- —
in oil, kgs.....lb. .16¾- —
97% Pb_3O_4, bbls., c.l. (20 tons), divd., Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo. and E. of Cascade Mts. in Wash. and Ore.lb. .11¼- —
other points.....lb. .11 - —
l.c.l., 5 tons, divd. Ala., etc. lb. .11¾- —
Ariz., etc.....lb. .12¼- —
Colo., etc.....lb. .12 - —
other points.....lb. .11½- —
smaller lots, divd. Ala. lb. .12¼- —
Ariz., etc.....lb. .12¾- —
Colo., etc.....lb. .12½- —
other points.....lb. .12 - —
98% Pb_3O_4, bbls., c.l. (20 tons), divd. Ala., etc..lb. .11¼- —
other points.....lb. .11¼- —
l.c.l., 5 tons, divd. Ala., etc..lb. .12 - —
Ariz., etc.....lb. .12¼- —
Colo., etc.....lb. .12¼- —
other points.....lb. .11¾- —
smaller lots, divd. Ala., etc..lb. .12½- —
Ariz., etc.....lb. .13 - —
Colo., etc.....lb. .12¾- —
other points.....lb. .12¼- —
Resinate, precip., 23.8% Pb dms..lb. .20 - —
Silicate, bgs.....lb. .0730- .0780
Soyate, 20.15% Pb., dms.....lb. .22½- —
Stearate, bbls.....lb. .34½- .35½
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, 16% Pb. dms.....lb. .10 - .11
Titanate, bgs., bbls., c.l., l.c.l., 6 tons, one delivery, E, frt. alld..lb. .11¼- —
Pac. Cst., ex whse....lb. .11½- —
smaller lots, E. frt. alld. lb. .11½- —
Pac. Cst., ex whse..lb. .11¾- —
White, basic carbonate, bbls., c.l., divd. Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash., and Wyo. lb. .10 - —
divd. other points....lb. .09¾- —
l.c.l., divd. Ariz., etc...lb. .10¼- —
other points.....lb. .10 - —
basic sulphate, bbls., c.l., divd. Ariz., etc..lb. .09 - —
other points.....lb. .08¾- —
l.c.l., divd. Ariz., etc....lb. .09¼- —
other points.....lb. .09 - —
in oil, consumers, kgs.....lb. .15 - —
painters, kgs.....lb. .14 - —
Lecithin, edible, dms., c.l.....lb. .25¼- —
l.c.l. .....lb. .26½- .45
in cocoa butter, dms., c.l..lb. .39½- —
l.c.l. .....lb. .40¾- .50
tech., dms., c.l.....lb. .25¼- —
l.c.l. .....lb. .26½- .45
vegetable, pure, bots., 100 lbs. lb. 2.75 - —
Lemon peel, bls.....lb. .35 - .40
Licorice extract, mass, cns....lb. .40 - .42
powd., bbls.....lb. .60 - .62
Root, natural, bls.....lb. .12 - .14
powd., bbls.....lb. .18 - .20
5-lb. bundles, cs.....lb. .63 - .66
Lignin extract tanning grade, bgs., c.l., works..lb. .04 - —
Lime, agricultural, works....ton. 9.00 - 9.50
Chemical (quicklime), lump, pebble, Adams, Mass..ton. 9.00 - —
Annville, Pa.....ton. 8.50 - —
Bellefonte, Pa.....ton. 8.50 - —
Berkeley, W. Va....ton. 8.50 - —
Buffalo, N. Y.....ton.10.25 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa....ton. 9.00 - —
Crab Orchard, Tenn.ton. 7.90 - —
Eagle Mountain, Va.ton. 8.50 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio....ton. 7.50 - —
Hannibal, Mo.....ton. 7.50 - —
Keystone, Ala.....ton. 7.90 - —
Knoxville, Tenn.....ton. 7.90 - —
Limedale, Ark.....ton. 8.00 - —
Longview, Ala.....ton. 7.90 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 8.50 - —
Martinsburg, W. Va.ton. 8.00 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 7.50 - —
Newala, Ala.....ton. 7.90 - —
Ripplemead, Va.....ton. 8.50 - —
Riverton, Va.....ton. 8.50 - —
Rockland Maine.....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Texas....ton. 7.90 - —
Sherwood, Wisc.....ton. 8.50 - —
Springfield, Mo.....ton. 8.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
Hydrated, Adams, Mass....ton.10.00 - —
Annville, Pa.....ton.10.00 - —
Bellefonte, Pa.....ton.10.00 - —
Berkeley, W. Va.....ton.10.00 - —
Buffalo, N. Y.....ton.10.50 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa....ton.10.00 - —
Crab Orchard, Tenn..ton.10.65 - —
Eagle Mountain, Va.ton.10.00 - —
Farnams, Mass.....ton.10.00 - —
Gibsonburg, Ohio....ton. 9.50 - —
Hannibal, Mo.....ton. 9.50 - —
Keystone, Ala.....ton.11.65 - —
Knoxville, Tenn.....ton.10.65 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton.10.00 - —
Longview, Ala.....ton.11.65 - —
Manistique, Mich....ton. 9.50 - —
Marblehead, Ohio....ton.10.50 - —
Martinsburg, W. Va.ton.10.00 - —
Mitchell, Ind.....ton.10.00 - —
Newala, Ala.....ton.11.65 - —
Petoskey, Mich.....ton.10.00 - —
Port Island, Mich....ton. 9.00 - —
Rapid City, S. Dak.ton.12.00 - —
Ripplemead, Va.....ton.10.00 - —
Rockland Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.11.65 - —
Sherwood, Wisc.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton.10.00 - —

What comes off the end of your customer's brush depends on what you put into your product.

* * *

Run your eye over the list above and see if you don't agree that these features are *all* mighty important to you or your customers.

* * *

You get all 14 of these properties from one pigment — Basic Carbonate White Lead!

* * *

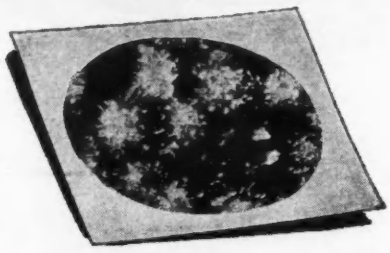
A number of the advantages White Lead imparts to paint come from its unique ability to form "lead soaps" — as explained at the right.

* * *

Look into the many ways White Lead helps make better house paint.

* * *

Our technical staff will be glad to advise how Dutch Boy Basic Carbonate White Leads fit into formulations. Their recommendations are backed up by 28 years of outdoor exposure tests —the longest continuous paint fence experience on record.



Lead Soaps Give These "Pluses"

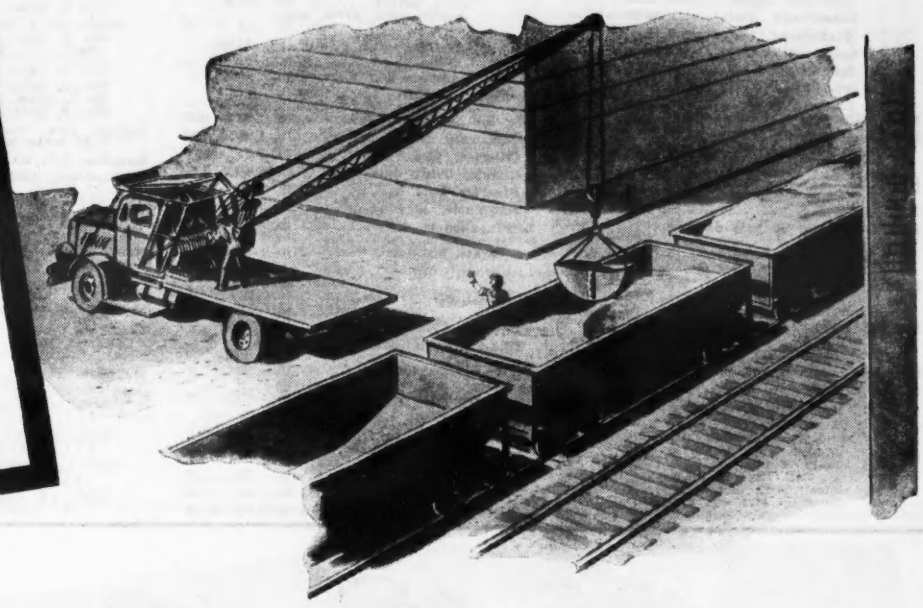
Many of White Lead's advantages in paint-making result from the "lead soaps" formed when this pigment reacts with oil. As shown in the photomicrograph above, each fibrous lead soap structure has a nucleous, from which radiate multiple projections. These soap formations mechanically reinforce the paint film, giving it greater toughness and weather resistance.

They also allow movement all along their intermeshing projections. This action helps prevent the ruptures to which a hard unyielding film is subject—improves both elasticity and adhesion.

The tendency of White Lead to react with linseed oil also explains why this pigment wets easily and thus mixes and grinds well.

NATIONAL LEAD COMPANY — *New York, Buffalo, Chicago, Cincinnati, Cleveland, St. Louis, San Francisco; Boston (National-Boston Lead Co.); Pittsburgh (National Lead & Oil Co. of Penna.); Philadelphia (John T. Lewis & Bros. Co.)*

DUTCH BOY *Basic Carbonate* WHITE LEADS



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- Synthetic and natural glues
- Printing inks (black and colors)
- Zinc Carbonate
- Picric Acid
- Welding fluxes
- Detergents and cleaners
- Water treating compounds
- Coal Tar
- Borax and boric acid
- Metal salts, oxide and hydroxides
- Pitches
- Rubber processing chemicals
- Gases
- and most other chemicals

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Lime, spray, paper bgs., Adams, Mass..ton.10.00 - —
Annville, Pa.....ton.10.00 - —
Bellefonte, Pa.....ton.10.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio....ton.10.00 - —
Marblehead, Ohio....ton.10.00 - —
Rockland, Maine.....ton.10.00 - —
Scioto, Ohio.....ton10.00 - —
Woodville, Ohio.....ton.10.00 - —
York, Pa.....ton.10.00 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen[6] 20.5% N. (see Ammonia nitrate-lime-stone).
Limestone, ground, bulk, works. ton. 1.40 - —
Linalool .....lb. 7.00 - —
Linalyl acetate, ex bois de rose, bots..lb. 8.50 - —
ex lignaloe wood, bots.....lb. 7.75 - 8.40
ex petitgrain, bots.....lb. 8.50 - 9.10
Linden flowers with leaves, bls. lb. .55 - .60
without leaves, bls.....lb. .65 - .70
Linseed meal,[7] 34%, bulk, c.l., ton. No prices
32%, same basis.....ton. No prices
Litharge, com'l, powd., bbls., c.l. dlvd. Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo. and E. of Cascade Mts. in Ore. and Wash..lb. .10 - —
other points .....lb. .09¾- —
Ala., Cal., Fla., Ga., La., Miss., Tex., and W. of Cascade Mts. in Ore. and Wash..lb. 10¼- —
Litharge, com'l, powd., bbls., c.l., dlvd., Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash..lb. .11 - —
Colo., Mont., N. Mex., Wyo..lb. .10¾- —
other points .....lb. .10¼- —
smaller lots, dlvd. Ala., etc..lb. .11 - —
Ariz., etc. .....lb. .11⅛- —
Colo., etc. .....lb. .11¼- —
other points .....lb. .10¾- —
Lithium bromide, bbls., 100-lb. lots, works, frt. equald.lb. 1.90 - —
smaller lots, works.....lb. 1.92 - 1.96
Carbonate, NF, bbls., kgs...lb. 1.25 - 1.30
Chloride, jars .....lb. 1.65 - 1.70
Citrate, bbls., dms., kgs....lb. 1.40 - 1.41
Fluoride, bbls. .....lb. 2.45 - 2.60
Hydroxide, jars .....lb. 1.35 - 1.40
Lithium iodide, bots.....lb. 5.20 - —
jars .....lb. 5.05 - —
Stearate, fib dms., works.....lb. .53½- —
Lithopone,[1] ordinary, bgs., c.l., (20tons)..lb. .0440- —
l.c.l. .....lb. .0465- —
bbls., c.l. .....lb. .0435- —
l.c.l. .....lb. .0490- —
titanated (high-strength), bgs. lb. .05¾- —
smaller lots .....lb. .06 - —
bbls., c.l. .....lb. .06 - —
smaller lots .....lb. .06¼- —
Lithopone, c.l., dlvd. Pac. Cst., ¼c. higher; l.c.l., ex whse. Pac. Cst. ½c. higher.
Liverwort leaves, bls.....lb. .70 - .75
Lobelia herb, bls.....lb. .80 - .85
Lobeline sulphate, bots., wks.oz.25.50 -28.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. .34 - —
No. 2, bbls., l.c.l.....lb. .32 - —
liquid, No. 1, bbls., c.l....lb. .17 - —
No. 2, bbls., l.c.l.....lb. .16 - —
No. 3, bbls., l.c.l.....lb. .15½- —
No. 4, bbls., l.c.l. .....lb. .15 - —
solid, No. 1, bxs., l.c.l.....lb. .28 - —
No. 2, bxs., l.c.l.....lb. .26 - —
bbls., c.l., Zone 1.....lb. .09½- —
No. 4, bxs., l.c.l.....lb. .23 - —
No. 3, bgs., l.c.l.....lb. .23¼- —
No 5, boxs., l.c.l.....lb. .21½- —
No. 6, boxs., l.c.l.....lb. .38½- .44¼
Lovage root, American (ligusticum actae folium), bbls..lb. 1.20 - 1.50
Lupulin, NF, tin.....lb.12.75 -18.00
Lycopodium, USP, cs.....lb. 2.50 - 3.00

M

Mace, Amboyna, cs.....lb. .80 Nom.
Banda, cs.....lb. 1.10 Nom.
West Indian, bgs.....lb. 1.10 - 1.20
Broken, bgs. .....lb. 1.00 Nom.
Madder, Dutch, bbls.....lb. .24 - .30
Magnesia arsenate,[1] dms.....lb. .153 - .18
Calcined, tech., USP, bbls., works..lb. .26 - —
Magnesia carbonate, tech., bgs., c.l., l.c.l., Zone 1..lb. .07¼- —
bbls., c.l., Zone 1.....lb. .07½- —
l.c.l., Zone 1.....lb. .08½- —
kgs., c.l., Zone 1.....lb. .08¾- —
l.c.l., Zone 1.....lb. .09¾- —
USP, bgs., c.l., Zone 1.....lb. .08 - —
l.c.l., Zone 1.....lb. .09 - —
bbls., c.l., Zone 1.....lb. .08½- —
l.c.l., Zone 1.....lb. .09¼- —
Magnesia carbonate, USP, kgs., c.l., Zone 1..lb. .09¼- —
l.c.l., Zone 1.....lb. .10¾- —

Magnesia carbonate prices, basis Phillipsburg, N. J., and Plymouth Meeting, Valley Forge, Pa. Zone 1—Conn., Del., D. C., Md., Mass., N. J.. N. Y., Pa., and R. I.; Zone 2, remainder of U. S.

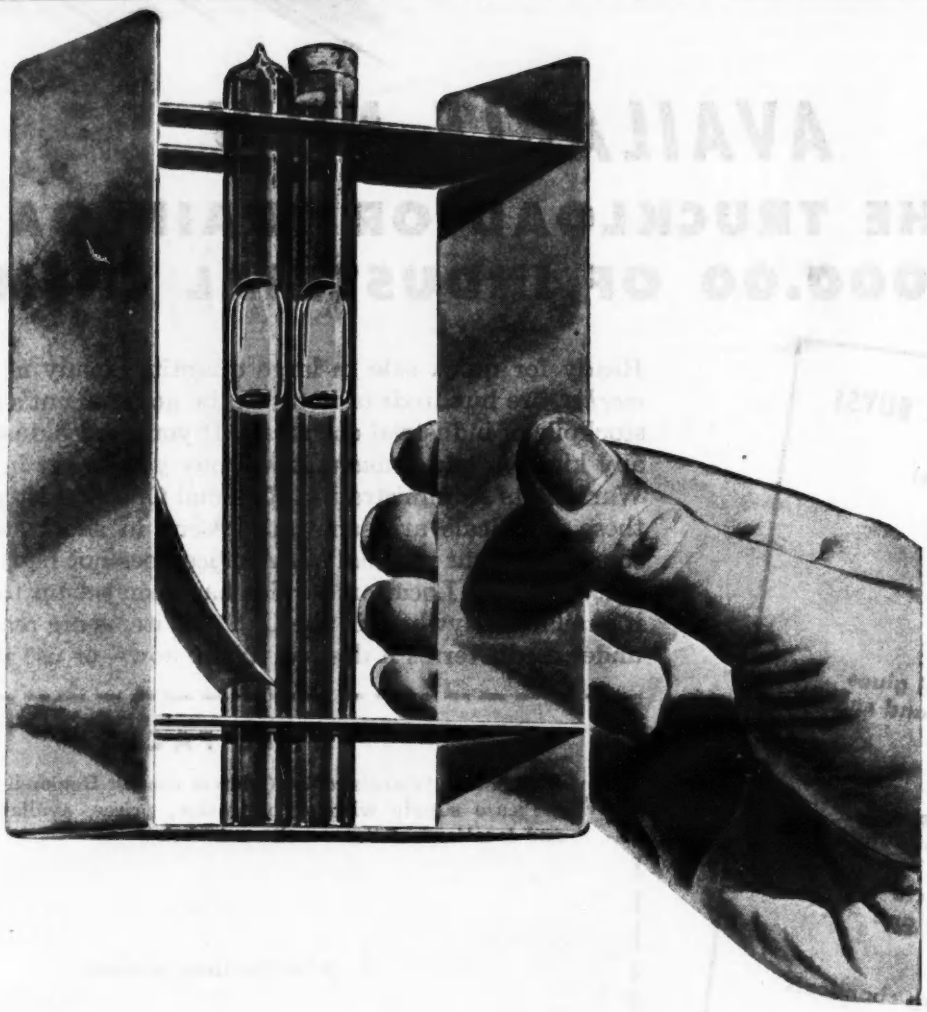
Chloride, anhyd., bbls., dlvd.lb. .12¾- —
flake, bbls., c.l., works...ton.32.00 - —
l.c.l., works.....ton.39.00 -42.00
Fluoride, bbls.....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns.....lb. 1.45 - —
Laurate, bbls.....lb. .33 - .35
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works..lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls. lb. .60 - —
Silicate (see Talc).
Silicofluoride, bbls.....lb. .08 - .09
Stearate, ctns., 2,000 lbs. to c.l. lb. .34½- —
less than ton.....lb. .35½- —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. contracts..lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, cal., powd., sgs., c.l., mines, Calif..ton.58.75 - —
dead-burnt,[1] bulk, c.l., Chewelah, Wash..ton.22.00 -32.00
Maleic anhydride, dms., c.l....lb. .25 - —
l.c.l. .....lb. .26 - —
Malva flowers, black, bls.....lb. No stocks
blue, bls.....lb. 1.75 - 1.80
Leaves, bls.....lb. .40 - .41
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .33 - .34
Manganese acetate, dms.....lb. .25½- —
Arsenate,[6] bgs.....lb. .12 - .12¾
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls.....lb. .19 - —
Chloride, anhyd., bbls., wks..lb. .14 - .16
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
85-90%, bbls., c.l., works... ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
burlap bgs., c.l., works. ton.71.75 - —
l.c.l., works.....ton.74.75 -79.75
paper bgs., c.l., works.ton.70.00 - —
l.c.l., works.....ton.73.00 - —
Glycerophosphate, fib. dms., 1,000-lb. lots..lb. 3.05 - —
100-lb. lots.....lb. 3.15 - —
cns., 25 lbs.....lb. 3.27 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide, bots.....lb. 5.70 - —
jars .....lb. 5.55 - —
Linoleate, liquid, 4%, dms...lb. .20 - —
solid, precip., 8.2%, bbls..lb. .22 - —
Naphthenate, 6% Mn, dms...lb. .17¾- —
Resinate, fused, 8½%, bbls..lb. .09 - .10½
precip., dms.....lb. .17½- —
Soyate, 8.2% Mn, dms.....lb. .22 - —
Sulphate, anhyd., dms., works. lb. No stocks
feed grade, 77-80%, bgs....lb. .04 - .05
fertilizer grade, 65%, bgs., c.l., dlvd. East..ton.62.00 - —
l.c.l., same basis, or Balto. or Cincinnati... ton.65.00 - —
industrial grade, 80% bgs..lb. .05 - .05¾
75%, bgs., c.l., dlvd. East, ton.60.00 - —
Tallate, 4% Mn, dms.....lb. .10¾- .11¼
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock, U. S. ports..ton.58.00 Nom.
Manna, flake, large, cs.....lb. 1.50 - 1.55
small, cs..... .....lb. No stocks
Mannitol,[6] com'l, bbls., works.lb. .35 - .40
reagent, cs. or multiples. works..lb. .35 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
California, French type, new crop, bls., Pacific Coast..lb. .25 - .30
Chilean, bls.....lb. .08½- .09
Matico leaves, bls.....lb. .22 - .29
Menadione, USP, bots., works, gram. .10 - —
Menthol, natural, USP, Brazilian, cns..lb. 7.80 - 8.05
synthetic, tech., cns.....lb. No prices
USP, laevo, cns.....lb. No prices
racemic, cns. .....lb. 6.10 - 6.20
Menthyl salicylate, tins.....lb. 2.00 - 2.10
Mercurial ointment, USP, mild, 10%, tube..lb. .70 - .72
30%, pails .....lb 1.30 - —
50%, pails .....lb 1.88 - 1.90
Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms. .....lb. 2.59 - 2.61
Chloride (see Calomel).
Cyanide, cryst., powd .....lb. 3.86 - —
Iodide, red, NF, dms.....lb. 4.30 - —
yellow, NF, fib. dms.....lb. 4.40 - —
Oxide, red, NF (see Red precipitate).
yellow, USP, fib dms.....lb. 2.94 - 2.98
tech. (see Yellow mercury oxide).
Mesityl oxide, dms., c.l., dlvd.lb. .11¼- —
l.c.l., dlvd. .....lb. .12 - —
tanks, dlvd. .....lb. .10¼- —
Metal leaf, composition, 5½x5¼ in..pkg. No stocks
Gold X+, deep, 23, 3⅜x3⅜ in., pkg. No stocks
Silver, 3⅜x3⅜ in.....pkg. No stocks
Metanitroparatoluidin, bbls....lb. 1.05 - 1.10
Metaphenylenediamine, kgs....lb. .65 - —
Metatoluylenediamine, kgs. ..lb. .70 - —
Methanol,[1] natural, all grades. dms., c.l., E. of Miss. R. gal. .63 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. 60 - —

Prices on natural methanol W. of Miss. R., 3c. higher.

synth., dms., c.l., Zone 1, frt. alld..gal. .31 - —
2 frt. alld. or dlvd....gal. .34 - —
3, frt. alld.....gal. .38 - —
4 frt. alld.....gal. .38 - —
l.c.l., Zone 1, frt. alld. or dlvd..gal. .36 - —
2, frt. alld. .....gal. .42 - —
3, dlvd. S. F. and L. A. gal. .41 - —
4, frt. alld. or dlvd...gal. .51¼- —
tanks, Zone 1, frt. allo..gal. .24 - —
2, frt. alld.....gal. .27 - —
3, frt. allo.....gal. .29 - —
4, frt. allo.....gal. .29 - —

Synthetic methanol zones are:—Zone 1—Conn. Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.l., dlvd..lb. .15 - —
10 dms.....lb. .16¾- —
1-9 dms.....lb. .17¾- —



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If you are unfamiliar with these developments, turn to the Kellogg Technical Service Department as your source of information. The results of years of laboratory research and plant scale testing are at your service.

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AND SONS, INC. BUFFALO 5, N. Y.
The First Name *in Vegetable Oils*

Methyl abietate, hydrogenated, non-ret. dms., c.l., dlvd.	lb.	.13¾ -	.15
10 dms., dlvd.	lb.	.16¾ -	—
1-9 dms., dlvd.	lb.	.17¾ -	—
Acetate, CP, 97-99%, dms., c.l., E. of Miss.	lb.	.10½ -	.12
W. of Miss.	lb.	.11½ -	.13
l.c.l., E. of Miss.	lb.	.11 -	.14
W. of Miss.	lb.	.12 -	.13½
tanks, E. of Miss.	lb.	.09¼ -	—
W. of Miss.	lb.	.10¾ -	—
tech., dms., c.l., E. of Miss.	lb.	.07 -	.09
W. of Miss.	lb.	.08 -	—
l.c.l., E. of Miss.	lb.	.07½ -	.11
W. of Miss.	lb.	.08½ -	.10½
tanks, E. of Miss.	lb.	.06 -	—
W. of Miss.	lb.	.07 -	—
Acetoacetate, dms., c.l., works, frt. alld.	lb.	.30¼ -	—
Acetone, natural, Group A, dms., incl. E. of Miss., frt. alld.	gal.	.06 -	—
l.c.l., same basis	gal.	.76 -	—
tanks, same basis	gal.	.60 -	—

Natural methyl acetone prices W. of Miss R., 3c. per gal. higher.

Group B, dms., c.l., Zone 1, frt. alld.	gal.	.63 -	—
Zone 2, same basis	gal.	.65 -	—
Zone 3, same basis	gal.	.67 -	—
Zone 4, same basis	gal.	.69 -	—
l.c.l., Zone 1, same basis	gal.	.66 -	—
Zone 2, same basis	gal.	.83 -	—
Zone 3, same basis	gal.	.70 -	—
Zone 4, same basis	gal.	.83 -	—
tanks, Zone 1, same basis	lb.	.60 -	—
Zone 2, same basis	gal.	.62 -	—
Zone 3, same basis	gal.	.64 -	—
Zone 4 same basis	gal.	.64½ -	—

Natural methyl acetone zones are:—Zone 1, Conn., Del., D. of C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo. N. H., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo. Zone 3—Los A., San Fran., Seattle, Wash.; Portland, Ore. Zone 4—Ariz., Cal., Idaho, Mont., N. Mex., Nev., Ore., Utah, Wash.

synthetic, dms., c.l., Zone 1.	gal.	.51 -	—
Zone 2	gal.	.52 -	—
Zone 3	gal.	.53½ -	—
Zone 4	gal.	.54½ -	—
l.c.l., Zone 1	gal.	.54½ -	—
Zone 2	gal.	.57 -	—
Zone 3	gal.	.58 -	—
Zone 4	gal.	.59½ -	—
tanks, Zone 1	gal.	.43 -	—
Zone 2	gal.	.44½ -	—
Zone 3	gal.	.45½ -	—
Zone 4	gal.	.45½ -	—

Synthetic methyl acetone zones are:—Zone 1—Conn., Del., D. C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., S. C., Tenn., Vt., Va., W. Va., Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. D., Tex., Wyo. Zone 3—Los Angeles, Cal.; San Francisco, Cal.; also (c.l. only) Portland, Ore. and Seattle, Wash. Zone 4—Ariz., Cal., N. Mex., Mont., Nev., Idaho, Ore., Utah, Wash.

Alcohol (see Methanol).			
Anthranilate, dms.	lb.	1.80 -	1.85
bots., cns.	lb.	2.20 -	2.60
Benzoate, cns.	lb.	.45 -	.55
Bromide, cns.	lb.	.63 -	.65
cyls.	lb.	.55 -	.70
Chloride, refrigeration, cyls., 500 lbs. and up, machine mfrs. and jobbers, cylinders.	lb.	.32 -	—
service men and consumers	lb.	.36 -	—
50 to 499 lbs., mach. mfrs. and jobbers	lb.	.36 -	—
service men and consumers, 500-lb.	lb.	.40 -	—
tanks, multi-unit, machine mfrs. and jobbers	lb.	.31 -	—
service men and consumers	lb.	.36 -	.40
60-490 lb. cyl.	lb.	.40 -	—

Methyl chloride quotations are spot or contract, ship. point; prices above are in 60, 90 and 130-lb. cylinders; 20-lb. cylinders 10c. per pound higher.

Alcohol (see Methanol).			
Cinnamate, cns.	lb.	2.25 -	3.50
Formate, dms.	lb.	.80 -	—
Iodide, bots.	lb.	4.00 -	4.15
Lactate, dms., c.l., dlvd.	lb.	No stocks	
Oleate, dms., c.l.	lb.	.36 -	—
Salicylate,[1] dms., 500 lbs.	lb.	.35 -	—
25-55 lbs.	lb.	.37 -	.38
Methylamyl ketone, cns., dms., works.	lb.	No stocks	
Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld.	lb.	.60 -	—
smaller lots, frt. alld.	lb.	.65 -	.70
standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more, frt. alld.	lb.	.53 -	—
smaller lots, frt. alld.	lb.	.58 -	.63
Methylcyclohexane, 98-100%, dms., works.	lb.	.16 -	—
Methylcyclohexanol, 98-100%, dms. works	lb.	.23 -	—
Methylcyclohexanone, 98-100%, dms., works.	lb.	No stocks	
Methylene blue, USP, kgs., works.	lb.	2.00 -	2.15
cns., works.	lb.	2.35 -	—
Chloride, refrig., dms., wks.	lb.	.18 -	.28
solvent, dms., works.	lb.	.12 -	.15
Methyleneanilin, lbs., ton lots, min. frt. alld.	lb.	.36 -	—
smaller lots, same basis	lb.	.37 -	—
Methylethyl ketone, dms., dlvd.	lb.	.09 -	—
l.c.l., dlvd.	lb.	.09¼ -	—
tanks, dlvd.	lb.	.08 -	—
Methylhexyl ketone, dms., tech., works.	lb.	.60 -	—
Methylisobutyl carbinol (see Carbinol, methylisobutyl).			
Methylisobutyl ketone, dms., c.l., dlvd.	lb.	.11½ -	—
l.c.l., dlvd.	lb.	.12 -	—
tanks, dlvd.	lb.	.10¼ -	—
Methylnaphthyl ketone, cns.	lb.	2.75 -	—
Methylpentanediol, dms., c.l., works.	lb.	.16 -	—
l.c.l., works.	lb.	.16½ -	—
1 and 5-gal. cont., works.	lb.	.20½ -	.23½
tanks, works.	lb.	.15 -	—
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works.	ton.	47.50 -	—
l.c.l., works.	ton.	51.00 -	—
roofing, 20 to 80 mesh, works.	ton.	50.00 -	60.00
graphite, bulk, Pa., mines.	ton.	80.00 -	—
wet-grd., biotite, bgs., c.l., works frt. alld. E.	lb.	.05 -	—
l.c.l., ex whse., or frt. alld. E.	lb.	.05½ -	—
extra fine, bgs., c.l., works, frt. alld. E.	lb.	.05¼ -	—
l.c.l., ex whse. or frt. alld. E.	lb.	.05¾ -	—

Mica, wet-grd., paint or lacq., bgs., c.l., works, frt. alld. E.	lb.	.06 -	—
l.c.l., ex whse. or frt. alld. E.	lb.	.06½ -	—
rubber, bgs., c.l., works, frt. alld. E.	lb.	.05¾ -	—
l.c.l., ex whse. or frt. alld. E.	lb.	.06¼ -	—
wallpaper, bgs., c.l., works, frt. alld. E.	lb.	.06 -	—
l.c.l., ex whse. or frt. alld. E.	lb.	.06½ -	—
white, extra fine, bgs., c.l., works, frt. alld. E.	lb.	.06½ -	—
l.c.l., ex whse. or frt. alld. E.	lb.	.07 -	—

Mica, wet-grd., W. of Miss. R., ½c higher. W. of Rockies, ¾c. higher.

Milk powder,[1,7] skimmed, roller, bulk, c.l.	lb.	.15¼ -	17¾
spray, bulk c.l.	lb.	.15¾ -	17¾
whole, roller, bbls., c.l.	lb.	.40 -	.41
spray, bbls., c.l.	lb.	.41 -	.42
Milk sugar, bbls., c.l., works.	lb.	.26 -	—
l.c.l., works	lb.	.26¾ -	.27¼

Mineral spirits (see Petroleum, mineral spirits).

Molasses,[1,6] blackstrap, tanks, works Area 1.	gal.	.18 -	—
Area 2.	gal.	.18½ -	—
Area 3.	ton.	26.00 -	—
Area 4.	ton.	29.00	—
tanks, Area 5.	ton.	34.00 -	—

Area 1, Fla., Ga., La., Tex.; Area 2, Mass., Md., N. J., N. Y.; Area 3, Calif.; Area 4, Colo., Idaho, Kan., Mont., Neb. (excepting Grand Island), S. D., Utah, Tex., Wash, Wyo.; Area 5, Fla., Md., Mich., Minn., Grand Island, Neb., Ohio, Wis.

Molybdate orange (see Orange, molybdate).

Molybdenum metal,[6] kgs., 99% powd.	lb.	2.60 -	3.00
Trioxide,[1,6] pure, kgs., works, basis Mo. content.	lb.	.95 -	—
technical, kgs., works, basis Mo. content.	lb.	.80 -	—
Monoamylamine, dms., c.l., works, basis 100%.	lb.	.61 -	—
l.c.l., works, basis 100%.	lb.	.64 -	—
Monochlorobenzene, dms., c.l., works.	lb.	.05½ -	—
l.c.l., works.	lb.	.07 -	.09
Monoethanolamine, dms., c.l., frt. alld. E.	lb.	.24 -	—
l.c.l., same basis.	lb.	.25 -	—
tanks, same basis.	lb.	.23 -	—
Monoethylamine, dms., c.l., works, basis 100%.	lb.	.17 -	—
l.c.l., works, basis 100%.	lb.	.18 -	—
tanks, 100% basis, works.	lb.	.15 -	—
Monomethylene, anhydrous, cyl., works, frt. alld. E. of Miss.	lb.	.32½ -	—
100% basis	lb.		
Monomethylene solution, dms., works, frt. alld. E. of Miss., 100% basis.	lb.	.37 -	.43½
tanks, same basis.	lb.	.32 -	—
Monomethylpara-aminophenol sulphate, dms.	lb.	2.40 -	2.90

Monosodium phosphate (see Soda phosphate, monobasic).

Morphine, bots., 5 ozs.	oz.	11.10 -	—
cns., 25 ozs.	oz.	10.90 -	—
Acetate, bots., 5 ozs.	oz.	9.00 -	—
cns., 25 ozs.	oz.	8.80 -	—
Hydrobromine, 5 ozs.	oz.	8.95 -	—
cns., 25 ozs.	oz.	8.75 -	—
Hydrochloride, bots., 5 ozs.	oz.	9.00 -	—
cns., 25 ozs.	oz.	8.80 -	—
Sulphate, bots., 5 ozs.	oz.	9.00 -	—
cns., 25 ozs.	oz.	8.80 -	—
Morpholine, dms., l.c.l., works.	lb.	.67 -	—
smaller containers, works.	lb.	.75 -	—
Mullein leaves, cns.	lb.	12 -	14

Musk, nat., Tonquin, grains, bots.,	oz.	53.00 -	60.00
synthetic, ambrette, cns., 100 lbs. or more	lb.	4.00 -	9.10
25 lbs.	lb.	4.10 -	9.20
5 lbs.	lb.	4.25 -	9.45
ketone, cns., 100 lbs. or more	lb.	4.15 -	9.25
25 lbs.	lb.	4.25 -	9.35
5 lbs.	lb.	4.40 -	9.70
xylol, cns.	lb.	1.40 -	2.00
25 lbs.	lb.	1.50 -	2.60
5 lbs.	lb.	1.65 -	2.90
Muskroot, bls.	lb.	No prices	
Mustard seed, Calif., Brown, bgs.	lb.	.15½ -	.16
yellow, bgs.	lb.	.21	Nom.
Danish, yellow, bgs., futures.	lb.	.21½ -	.22
Montana, brown, bgs., futures.	lb.	.10¼ -	.11
oriental, bgs.	lb.	.11½ -	.12
futures, f.o.b. source	lb.	.07½ -	.08
yellow, bgs.	lb.	No prices	
futures	lb.	.16½ -	.17
Washington, yellow, bgs.	lb.	.16½ -	.17
Myrobalans, whole, J1, U. S. ports, ex dock.	ton.	46.00 -	47.00
J2, same basis.	ton.	42.00 -	—

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).			
Solvent (see 8).			
Naphthalene, dom., crude, 74°, bgs., c.l., frt. equald.	lb.	.03 -	.03½
bbls., c.l., same basis.	lb.	.0335 -	.0375
tanks, same basis.	lb.	.0275 -	.032
78°, bgs., c.l., same basis.	lb.	.0325 -	.0375
bbls., c.l., same basis.	lb.	.0325 -	.0375
tanks, same basis.	lb.	.03 -	.0377

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50-lb. cs., same basis....lb. .09½ - —
1-lb pkgs., same basis..lb. .11 - —
Neocinchophen, USP, dms., works. lb. 7.00 - 7.10
Nepheline syenite, glass grade, 24 mesh, bulk, Rochester, N. Y...ton.12.00 - —
pottery grade, 200 mesh, bulk, Rochester, N. Y..ton.15.50 - —
Nephelinesyenite in bgs. is $2 per ton higher than bulk.
Nerolin, crys., cns.....lb. 1.70 - 1.95
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls.....lb. .36 - .36¼
Chloride, bbls. .....lb. .18 - .20
Cyanide, bots., dms.....lb. No stocks
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls. .....lb. .13 - .13¼
Nicotinamide, USP, dms., works, kilo. 9.50 - 9.80
Nicotine sulphate, 40%, dms., 50 lbs. to dealers, frt. allowed over 96 lbs..lb. .8660- —
tins, 10 lbs. .....lb. 1.015 - —
Nikethamide, bots., cbys.....lb. 7.00 - 8.00
Nitercake, bulk, works.....ton.16.00 - —
Nitrobenzene, dbl. dist., dms., c.l., lb. .08 - —
l.c.l. .....lb. .09 - —
tanks .....lb. .07 - —
Nitrocellulose, alcohol-soluble, ¼ sec., 30-35 cps., bbls., works, dry weight..lb. .28 - —
5-6, 40-60 cps., same basis. lb. .27 - —
Ester-soluble, ¼, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .28 - —
5-6, 15-20 cps. and higher, bbls., works, dry weight, lb. .25 - —

Nitrocellulose:—Denatured alcohol used in manufacture is charged extra. Barrels extra, but returnable.

Nitroethane, dms., works.....lb. .25 - —
Nitrogen solut., tanks.....ton.106.21 - —
Prices adjusted to ammonia sulphate basis from ports, and anhydrous ammonia basis, Hopewell, Va., bulk, works.
Nitrogenous process tankage,[1,7] bulk, works..unit-ton. 3.15 - 3.50
Sewage sludge,[1] bulk, works, unit-ton. 2.60+.40-3.00+.40
Nitromethane, dms., c.l., works, lb. .25 - —
Nitronaphthalene, bots. .....lb. .24 - .25
Nitropropane 1, dms., works..lb. .26 - —
M, dms., works.....lb. .26 - —
Nutgalls,[5] bgs. .....lb. .44 - .50
Nutmegs,[7] West Indian, bgs., Sept.-Oct..lb. .75 - .80
Nux vomica, bls. .....lb. .09½- .10
powder, bbls., bxs.....lb. .12 - .13

O

Oakbark extract,[1,5] 25% tannin. bbls., c.l., works..lb. No stocks
Octane,[1] 100° C-140° C, industrial grade dms., c.l., G.3..gal. .15½- —
l.c.l., cl. 3.....gal. .20 - —
10 gals., G. 3.....gal. .55 - —
tanks, G. 3.....gal. .13 - —
Octanol, (see Alcohol, ethylhexyl).
Oil, almond, artificial (see Benzaldehyde).
Bitter, F.P.A., bots.....lb. 4.35 - 5.00
USP, bots.....lb. No prices
sweet, exp., dms., cns...lb. 1.10 - 1.45
Angelica root, bots.....lb.115.00 -275.00
Seed, bots.....lb.115.00 -265.00.
Anilin (see A).
Anise, USP, Chinese, dms....lb. 1.35 - 2.75
Russian, cns.....lb. 3.75 - —
Apricot kernel, cns.....lb. .80 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
Babassu, tanks .....lb. No prices
Oil, bay, W. I., 50-55%, cns...lb. 1.30 - 1.65
Puerto Rican, 50-55%, cns..lb. 1.50 - 1.75
Bergamot, artif., cns.....lb. 2.25 - 5.50
natural, Italian, cns.....lb. 4.50 - 5.50
Birch (see Oil, sweet, birch).
Birchtar, crude, cns.....lb. 5.00 - 6.00
rectified, cns.....lb. No stocks
Bois de rose, Brazil, cns....lb. 5.25 - 6.00
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.25 Nom.
redistilled, USP IX, cns...lb. 2.40 - 2.75
Calamus, cns.....lb.20.00 -30.00
Camphor, white, nat., cns...lb. .95 - 1.25
synthetic, dms. .....lb. .15 - .35
Canangа, native, cns.....lb. 8.00 -14.00
rectified, cns.....lb.10.50 -17.00
Capsicum (see Capsicum, oleoresin).
Caraway, NF, cns.....lb. 6.00 - 6.75
Cardamom, bots. .....lb.18.00 -35.00
Cassia, USP, cns.....lb. 4.00 - 6.50
Castor, blown, ret. dms., c.l..lb. No prices
l.c.l. .....lb. No prices
cold pressed, USP, cns.....lb. No prices
dms., c.l. .....lb. No prices
l.c.l. .....lb. No prices
tanks .....lb. No prices
dehydrated, bodied, dms, c.l. lb. No prices
l.c.l. .....lb. No prices
tanks .....lb. No prices
unbodied, dms., c.l.....lb. No prices
l.c.l. .....lb. No prices
tanks .....lb. No prices
No. 3, tech., dms., c.l....lb. No prices
l.c.l. .....lb. No prices
tanks .....lb. No prices
sulphonated, 50% (48% fat). dms., c.l..lb. No prices
l.c.l. .....lb. No prices
75% (62-64% fat), dms., c.l. lb. No prices
l.c.l. .....lb. No prices
Cedarleaf,[1] USP, cns., dms..lb. 2.55 - 2.70
Oil, cedarwood, USP, cns.....lb. .80 - 1.80
dms. .....lb. .85 - 1.15
Celery, bots.....lb.17.00 -22.00
Chaulmoogra, USP, cns.....lb .90 - .95
Chinawood (see Oil, tung).
Cinnamon bark oil, bots.....lb.32.00 -41.00
leaf, dms.....lb. 1.40 - 1.85
Citronella, Ceylon, cns.....lb. 1.85 - 2.75
Java, cns. .....lb. 4.75 - —
Clove, USP, cns.....lb. 1.55 - 1.85
Coconut, Cochin type, bulk, c.i.f. N. Y..lb. No prices
Manila, bulk, c.i.f. N. Y..lb. No prices
ref., bleached, undeod., tankcars..lb. No prices
bichd., deod., tankcars..lb. No prices
Cod, Newfoundland, dms...gal. .88 - .90
tanks .....gal. .86 Nom.
Codliver, USP, bbls., dms..gal. 2.60 - 3.80
Coriander, bots.....lb.18.00 -22.50
Corn, crude, tanks, works..lb. No prices
deod., bichd., tanks, Chicago,. lb. No prices
foots, acid, 95%, tanks, dlvd. E..lb. No prices
raw, 50%, tanks, dlvd. E.lb. No prices
Cottonseed, crude, tanks, works. lb. .22½- .23
foots, acid 95%, tanks, dlvd. E..lb. No prices
raw, 50%, tanks, dlvd. E. lb. No prices
salad, or winterized, tankcars lb. No prices
Creosote (see C).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, cns..... .....lb No prices
Crude (see Petroleum, crude)
Cumin, bots.....lb. 8.50 -22.00
Cypress, bots .....lb 12.00 -16.00
Dagras (see D).
Dillseed, bots.....lb. 6.00 - 7.00
Dillweed, bots. .....lb. 4.00 - 5.00
Dip (see D).
Erigeron, cns.... .....lb. 2.25 - 4.40
Eucalyptus, USP, rect., 80-90%, cns..lb. 1.12 - 1.40
70-80%, cns.....lb. 1.05 - 1.40
Fennel, sweet, cns .....lb. 3.75 - 4.50
Fir, Canada, cns.....lb. 2.50 - 2.80
Fishliver, dms., less than 40,000 A units per gram.... per million units. .20 - —
for each 1,000 additional A units up to 200,000 grams. per million units. .001 - —
200,000 or more A units..... per million units. .40 - —
Fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz.15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns.....lb.16.00 -28.00
Bourbon, cns.....lb.16.25 -22.00
Russian, cns.....lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb.11.00 -14.00
Grapefruit, Florida, cns.....lb. 2.20 - 2.45
California, bots., cns.....lb. 2.30 - —
Grease, common, No. 1, bbls., c.l..lb. No prices
extra, No. 1, bbls., c.l....lb. No prices
Winter strained, bbls., c.l..lb. No prices
prime, burning, bbls., c.l..lb. No prices
inedible, bbls., c.l.....lb. No prices
Guaiacwood, cns.....lb. 2.90 - 4.00
Hemlock, cns. .....lb. 2.65 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices
Juniper berry, dom., bots....lb. 6.50 - 8.50
Juniper tar, USP (see Juniper Tar).
Juniper wood, tech., cns.....lb. .83 - 1.00
Lard oil (see Oil, grease).
Laurel, bots.....lb. No prices
Lavandin, cns.....lb. 4.15 - 5.00
Lavender flower, French, 38%-42% ester, cns..lb.10.00 -17.00
30-32% ester.....lb. 6.00 -10.00
Russian, cns.....lb.13.75 - —
Spike, Spanish, pure, cns...lb. 2.35 - 3.10
tech., cns. .....lb. 2.10 - 2.80
Lemon, USP, Calif., cns....lb. 3.25 - —
Messina,[1] cns.....lb. 3.25 - —
Terpeneless, bots.....lb.40.00 -50.00
Lemongrass, cns., dms.....lb. 3.80 - 4.45
Lignaloe seed, Mexican, cns.lb. No stocks
Wood, Mexican, cns.....lb. 4.60 - 5.75
Brazilian (see Bois de Rose).
Lime, distilled, Mexican, cns. lb. 5.25 - 7.20
West Indian, cns.....lb. 6.00 - 7.50
expressed, West Indian, cns.lb.13.50 -15.00
Linseed,[1] raw, dms, c.l.....lb. .353 - —
l.c.l. .....lb. .357 - .363
tanks .....lb. .345 - —
tankwagon .....lb. .347 - —
Boiled linseed oil, .004 higher than raw.
Linseed, replacement, dms., c.l. lb. No prices
dms., l.c.l. .....lb. No prices
tanks .....lb. No prices
Lubricating,[1] at refinery, ex tax, California, neutral, pale, 200-800 vis., 2¼-4 pour, tanks..gal. .07½- .11
red, 200-900 vis., 4-6½ pour, plus tanks..gal. .07½- .11¼
Group 3, bright stock, 150-160 vis., 0.25 pour, tanks. gal. .23 - .25
neutral, 300 vis., No. 3, col., 0.10 pour, tanks.gal. .18½- .19
200-300 vis., No. 3, col., 15-25 pour, tanks.gal. .16 - .18
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .26 - .31
cylinder oils, 600-630 flash, tanks..gal. .17 - .19
600-650 steam, refd., tanks..gal. .15½- .20
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks. gal. .26 - .36
200 vis., 25 pour, tanks. gal. .28 - .38
Mace, dist., cns., dms.....lb. 6.75 - 7.50
Mineral, white (see Oil, white).
Mandarin, Brazilian, cns.....lb. 6.40 -10.00
Menhaden, crude, tanks, Balto. lb. No prices
refined, alkali, dms., c.l...lb. No prices
kettle-bodied, dms., l.c.l..lb. No prices
light-pressed, dms., l.c.l..lb. No prices
tanks .....lb. No prices
Mustard, artif., USP, cns....lb. 1.45 - 1.65
Seed exp., dms., extra....lb. .14½- —
Neatsfoot,[1] 15°, bbls.....gal. 1.80 Nom.
20°, bbls. .....gal. No prices
30°, bbls. .....gal. No prices
pure, bbls. .....lb. No prices
Neroli, French, bots.....lb.150.00 -360.00
Haitian, bots. .....lb.170.00 -360.00
Nutmeg, cns. .....lb. 6.75 - 7.50
Ocotea cymbarum, dms.....lb. .85 - .95
Oiticica, liquid, dms., c.l....lb. No prices
l.c.l. .....lb. No prices
Oleo, extra, tcs., Chicago....lb. .33 - —
prime, Chicago.....lb. No prices
Olibanum, bots.....lb. 5.00 - 5.70
extra fine.....lb. 6.25 - —
Olive, denat., dms .....gal. No stocks
edible, Calif., 3%-4½% f.f.a., dms., extra, works..gal. No prices
imported, dms. .....gal. 8.50 - 9.00
foots, dms., c.l.....lb. No prices
tankcars .....lb. No prices

New *Aromatic* Chemicals Developed During the Past Year

The new odor successes in the perfume and cosmetic field will be based upon these:

★ ALDEHYDE FK

Basis for Lilacs to create richer, stronger Lilac Odor.
Add up to 10% Aldehyde FK.

★ JASMINOL

Similar in odor to Alpha Amyl Cinnamic Aldehyde but softer and finer.
Stable in soaps and creams. Basis for Jasmin Odors.

★ TUBEROL

Basis for Tuberose odors and perfumes for creams, lotions, etc.

★ CUIRUSAL

Powerful aldehyde useful in flora. and many fancy bouquets.
(Russian Leather)

★ RESEDALIA

A chemical surprisingly true to the odor of Reseda Mignonette.

★ ETHYLENE GLYCOL ACETAL OF PHENYL ACET ALDEHYDE

Softener and homogenizer for all types of Floral Odors.

★ VIOLETTONE

A Ketone basis with Patchouly note for Violet Odors.

These are a few of our recently developed products.

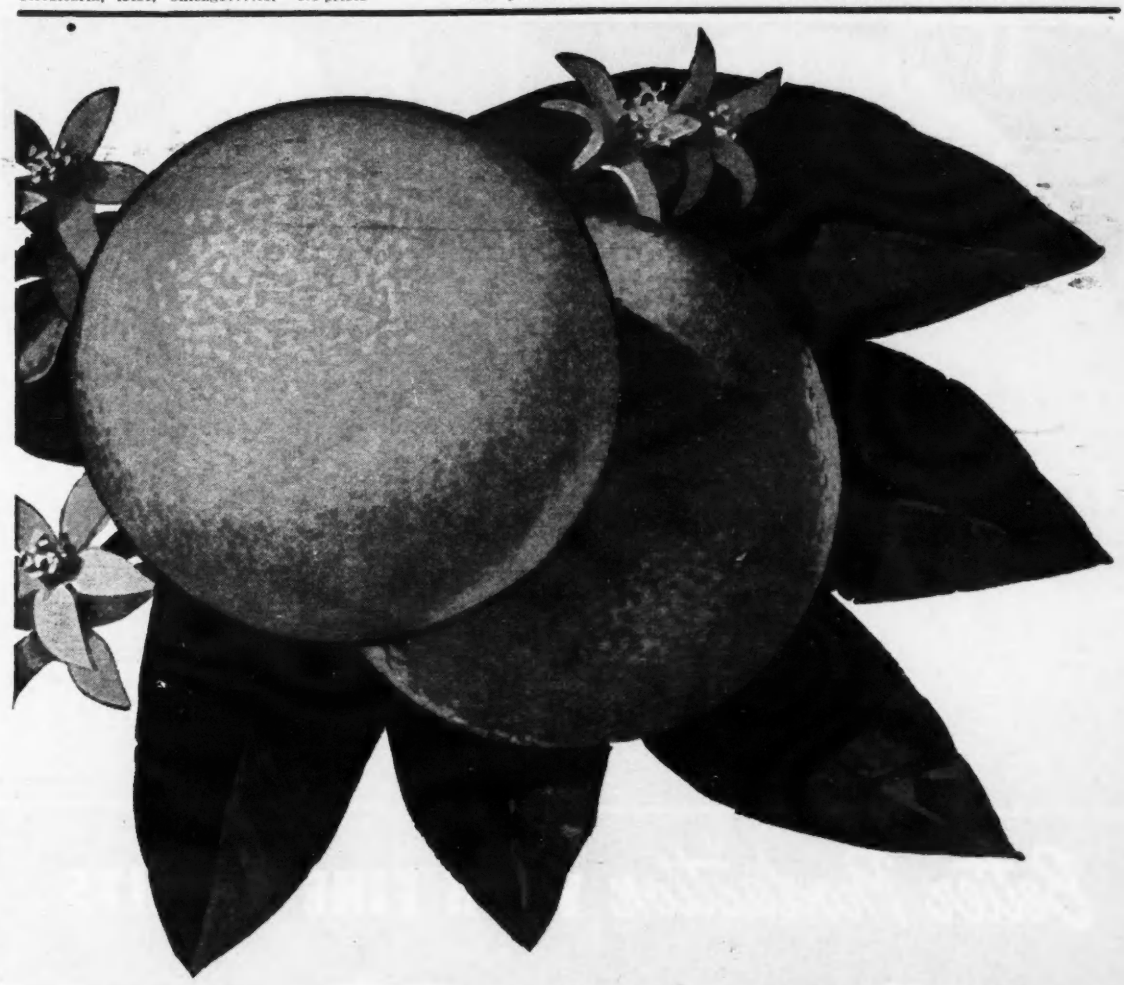
WRITE FOR COMPLETE LIST.

Cyclamal— An aldehyde replacing Hydroxy Citronellal. Five times stronger. Economical to use.

ESTABLISHED 1910 GD CO AROMATICS DIVISION

Aromatics Division
GENERAL DRUG COMPANY
125 Barclay St., New York 7, N. Y.
9 S. CLINTON STREET, CHICAGO 6 — 1019 ELLIOTT STREET, W. WINDSOR, ONT.

Oil, olive, sulphonated, 50% (40% fat), dms., c.l.	lb.	No stocks
l.c.l.	lb.	No stocks
80% (68% fat), dms., c.l.	lb.	No stocks
l.c.l.	lb.	No stocks
85% (68% fat), dms., c.l.	lb.	No stocks
l.c.l.	lb.	No stocks
Orange, sweet, dist., cs.	lb.	1.25 - 1.75
expressed, USP, Brazilian, cns.	lb.	1.45 - 2.00
Calif., cns.	lb.	1.60 - 2.00
Florida, cns., dms.	lb.	1.45 - 1.80
Mexican, coppers	lb.	No stocks
West Indian, cns	lb.	2.25 - 3.75
sesquiterpeneless, bots.	lb.	100.00 -114.00
Origanum, Spanish, cs.	lb.	2.85 - 3.10
Palm, Niger, dms.	lb.	No prices
Palmarosa, cns.	lb.	8.50 - 9.50
Palmkernel, crude, bulk, c.i.f., N. Y.	lb.	No prices
Paraffin,[1] 300° flash, 100-110 vis., tanks, G.S.	gal.	.05⅝- —
320° flash, 60-70 vis, tanks, G.S.	gal.	.06¼- —
350° flash, 70-80 @ 100 vis., 0/10 pour, G.S.	gal.	.08 - —
80-85 vis., 0/10 pour bbls. extra, ind. ref'y.	gal.	.12 - —
100-110 vis., 0/10 pour, same basis	gal.	.06⅛- —
10/25 pour, same basis	gal.	.06⅛- —
Patchouli, imported, cns.	lb.	70.00 -114.00
Peanut, bleached, undeord., tankcars.	lb.	No prices
crude, tanks, works.	lb.	.25 Nom.
foots, acid, 95%, tanks, dlvd. E.	lb.	No prices
raw, 50%, tanks, dlvd., E.	lb.	No prices
hydrogenated, tankcars.	lb.	No prices
Pennyroyal, dom., dms., cns.	lb.	3.25 - 3.60
import, cns.	lb.	4.25 - 4.50
Peppermint, natural, dms.	lb.	7.75 - 8.15
redist, USP, dms.	lb.	8.25 - 8.75
Perilla, crude, dms.	lb.	No stocks
Petitgrain, Paraguay, cns., dms.	lb.	4.25 - 4.75
Pimento, berry, dms.	lb.	6.75 - 8.00
Leaf, cns.	lb.	3.25 - 3.65
Pine, destructively dist., ret. dms., l.c.l., Jacksonville	gal.	.63 - —
New Orleans	gal.	.60 - —
steam dist., dms.	gal.	.65 - —
Pineneedle, cns.	lb.	3.35 - 3.65
Putty, petroleum, heavy, dms.	gal.	.18 - —
tankwagon	gal.	.13½- —
light, dms.	gal.	.16½- —
tankwagon	gal.	.12½- —
Rapeseed, bulk	lb.	No prices
Red, single dist., ret. dms., c.l., dlvd. E. of Rockies.	lb.	No prices
W. of Rockies	lb.	No prices
Texas and Okla.	lb.	No prices
tanks, dlvd., E. of Rockies.	lb.	No prices
W. of Rockies.	lb.	No prices
Texas and Okla.	lb.	No prices
double dist., ret. dms., c.l., dlvd. E. of Rockies.	lb.	No prices
W. of Rockies	lb.	No prices
Texas and Okla.	lb.	No prices
special, non-ret. dms., bbls., c.l., dlvd. E. of Rockies.	lb.	.16⅝- —
W of Rockies	lb.	.17⅛- —
Texas and Okla.	lb.	.17½- —
Rose, natural, coppers	oz.	31.25 -40.00
Rosemary, Spanish, tech., cns., dms.	lb.	1.10 - 1.50
USP, cns., dms.	lb.	1.40 - 1.75
Rosin, 1st rectified, dms.	gal.	.66 - —
2d rectified, dms.	gal.	.68 - —
3d rectified, dms.	gal.	.72 - —
Rue, bots.	lb.	4.75 - 5.25
Sage, Dalmatian, cns.	lb.	6.50 - —
Spanish, cns.	lb.	2.35 - 8.50
Sandalwood, NF, Mysore, cns., case lots.	lb.	11.15 -19.00
Sardine, crude, tanks Pac. coast	lb.	No prices
refined, alkali, dms., l.c.l.	lb.	No prices
kettle-bodied, dms., l.c.l.	lb.	No prices
light-pressed, dms., l.c.l.	lb.	No prices
tanks	lb.	No prices
Sassafras, artificial	lb.	.80 - 1.10
natural, Brazilian (see Oil, cocotes cymbarum).		
domestic, USP XII, cns., dms.	lb.	1.90 - 2.30
Savin, cns.	lb.	27.00 - —
Savory, cns.	lb.	8.00 - —
Seal, No. 1, tanks, U.S. ports.	lb.	No prices
Sesame, tanks	lb.	No prices
Shingle stain, bbls., c.l., works,	gal.	.2185-
l.c.l., works	gal.	.25 - .29
tanks, works	gal.	.15 - .16
Snakeroot, Canada, cns.	lb.	No stocks
Soybean, clarified, dms.	lb.	No prices
tanks	lb.	No prices
crude, tanks, Decatur	lb.	.23 - —
winterized, tankcars, Decatur	lb.	.25½ Nom.
ret. dms.	lb.	No prices
refd., varnish, dms.	lb.	No prices
tanks	lb.	No prices
foots, acid, 95%, tanks, dlvd. E.	lb.	No prices
raw, 50%, tanks, dlvd. E.	lb.	No prices
Spearmint, dms.	lb.	12.25 -14.00
Sperm, bleached, 38°, dms.	lb.	No prices
natural, 45°, dms.	lb.	No prices
Spruce, cns., dms.	lb.	2.65 - 2.75
Sunflower, imported, refined, tanks.	lb.	No prices
semi-refined, tanks.	lb.	No prices
Sweet birch, North, cns.	lb.	5.00 - 7.25
South, cns.	lb.	2.50 - 3.25
Tall, crude, dms., c.l., works.	ton.	No prices
l.c.l., works	ton.	No prices
tanks, works	ton.	No prices
refined, dms., c.l., works.	lb.	No prices
l.c.l., works	lb.	No prices
tanks, works	lb.	No prices
Tallow, acidless, bbls., c.l., Chicago.	lb.	No prices
tanks, Chicago	lb.	No prices
Tansy, cns.	lb.	12.00 - —
Tar,[2] pine, crude, dms., c.l., dlvd. E. cities.	gal.	.32⅝- —
l.c.l., works.	gal.	.29⅝- —
tanks, dlvd. E. cities.	gal.	.27 - —
rectified, USP, bbls.	gal.	.60½- —
Tar acid (see T).		
Thyme, red, NF, cns.	lb.	2.60 - 2.65
White, cns.	lb.	2.85 - 3.75
Tung, dms., c.l.	lb.	.39 - .39½
l.c.l.	lb.	.40 - .41
tanks	lb.	.38⅝- —
Turkey red (see Oil, castor, sulphonated).		
Turpentine, rectified, USP, cns., dms.	lb.	.26 - .43
Vetiver, Bourbon, cns.	lb.	37.50 -42.50
Haitian	lb.	32.00 -35.00
Whale, ref., natural, dms.	lb.	No stocks
Winter bleached, dms.	lb.	No stocks
Wheat germ, dms.	gal.	10.00 -13.50
White mineral, tech., 50-65 vis., dms., incl., c.l.	gal.	.40 - —
l.c.l.	gal.	.43 - .47
65-75 vis., dms., dms. incl., c.l.	gal.	.41 - —
l.c.l.	gal.	.44 - .48
USP, 80/90 vis., dms., dms. incl., c.l.	gal.	.43 - —
l.c.l.	gal.	.46 - .50
125/135 vis., dms., dms. incl., c.l.	gal.	54¼- —
l.c.l.	gal.	57¼- 61¼
Oil, white, mineral, USP, 145/155 vis., dms., dms. incl., c.l.	gal.	.56½- —
l.c.l.	gal.	.59½- —
175/185 vis., dms., dms. incl., c.l.	gal.	.59 - —
l.c.l.	gal.	.62 - .66
200/210 vis., dms., dms. incl., c.l.	gal.	.63 - —
l.c.l.	gal.	.66 - .70
335/345 vis., dms., dms. incl., c.l.	gal.	.71 - —
l.c.l.	gal.	.74 - .78
55, 70 and 85 vis., non-ret. dms., SanFrancisco.	gal.	.45 - —
smaller lots, same basis.	gal.	.47 - .50
100 vis., non-ret. dms., 65 dms., San Francisco.	gal.	.56½- —
smaller lots, same basis.	gal.	.57½- .61½
145 vis., non-ret. dms., 65 dms., San Francisco.	gal.	.64 - —
smaller lots, same basis	gal.	.66 - .69
190 vis., non-ret. dms., 65 dms., San Francisco.	gal.	.69½- —
smaller lots, same basis	gal.	.71½- .74½
240 vis., non-ret. dms., 65 dms., San Francisco.	gal.	.81 - —
smaller lots, same basis	gal.	.83 - .86
Wintergreen, natural, North, cns.	lb.	5.50 -12.00
South, cns.	lb.	3.65 - 4.25
synthetic (see Methyl salicylate).		
Wood (see Oil, tung).		
Wormseed, cns.	lb.	6.00 - 6.75
Wormwood, cns.	lb.	10.00 -12.25
Ylang-ylang, Bourbon, extra, bots.	lb.	18.00 -24.00
first, bots.	lb.	14.00 -17.50
second, bots.	lb.	10.50 -14.00
third, bots.	lb.	5.75 - 9.00
Oleostearin, loose, Chicago	lb.	No prices
Olivine, aggregate, c.l., mines.	ton.	7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works.	ton.	8.00 - —
paper bgs., c.l., works.	ton.	9.50 - —
lumps, paper bgs., c.l., works.	ton.	7.00 - —
spalls, paper bgs., c.l., works.	ton.	5.00 - —
Opium, USP, cns.	lb.	21.30 -21.55
gran.	lb.	22.70 -29.96
powd.	lb.	22.70 -29.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies.	lb.	.65 - .96
Chrome, CP, bbls., dlvd. N. of Tenn. and N.C., E. of Miss R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts.	lb.	.18¾- —
Chrome orange prices are ½c. higher, dlvd Ala., Fla., Ga., La. (Shreveport); 1¼c Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c.; Ft. Worth, Tex., 1½c.; El Paso, Tex., 2c.; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.		
Dinitroaniliin, toner	lb.	1.12 - —
Molybdate,[1] bbls.	lb.	.34½- —
Orthonitroaniliin toner,[1] bbls., kgs., works.	lb.	.86 - 1.05
Persian,[1] bbls.	lb.	.30 - .45
Orange mineral, American, bbls., 5 tons, dlvd. Ala., Cal., Fla., Ga., La., Miss., Tex. and W. of Cascade Mts. in Ore. and Wash.	lb.	.14 - —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash.	lb.	.14½- —
Mont., Wyo., Colo., N. Mex.	lb.	.14¼- —
other points	lb	13⅝-
Orange mineral, Amer., bbls., smaller lots, Ala., etc.	lb.	.14½- —
Ariz., etc.	lb.	.15 - —
Colo., Mont., N. M., Wyo.	lb.	.14¾- —
other points	lb.	.14¾- —
Orange flowers, cs.	lb.	.46 - .48
Orange peel, bitter, Haitian, bls.	lb.	.13 - .15
Sweet, bls.	lb.	.13½- .14
Oregano, Italian, bgs.	lb.	.27 - .27½
Mexican, curly leaf, bgs.	lb.	.10 - .10½
flat leaf, bgs.	lb.	.09¾- .10¼
Portuguese, bgs.	lb.	.24½- .25¼
Orris root, Florentine, bls.	lb.	.40 - .41
Verona, bls.	lb.	.35 - .36
Portuguese, bls.	lb.	.35 - .36
Orthoamyiphenol, dms., works.	lb.	.25 - —
Orthoanisidin, bbls.	lb.	.70 - —
Orthochloroanilin, dms.	lb.	.90 - —
Orthochlorophenol, dms.	lb.	.25 - .27
Orthocresol,[2] 30.4° C., min., M.P., dms., c.l., works.	lb.	.17½- .22
l.c.l., works	lb.	.18 - 18½
29° C. min., M.P., dms., c.l., works.	lb.	.16½- .17
l.c.l., works	lb.	.17 - .17½
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies.	lb.	.07 - —
l.c.l., same basis	lb.	.08 - —
tanks, same basis	lb.	.06½- —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.		
Orthonitroaniliin, dms.	lb.	.43 - .5[illegible]
Orthonitrochlorobenzene, dms.	lb.	.15 - .15
Orthonitrodiphenyl, tech., grade A., dms., c.l., works.	lb.	.10 - —
l.c.l., works	lb.	.11 - —
grade B, dms., c.l., works.	lb.	.06 - —
l.c.l., works	lb.	.07 - —
Orthonitroparachlorophenol, cns.,	lb.	.75 - —
Orthonitrotoluene, dms.	lb.	.09 - —
Orthophenetidin, dms.	lb.	.32 - —
Orthotoluidin, dms.	lb.	.19 - —



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ORANGE
U. S. P.

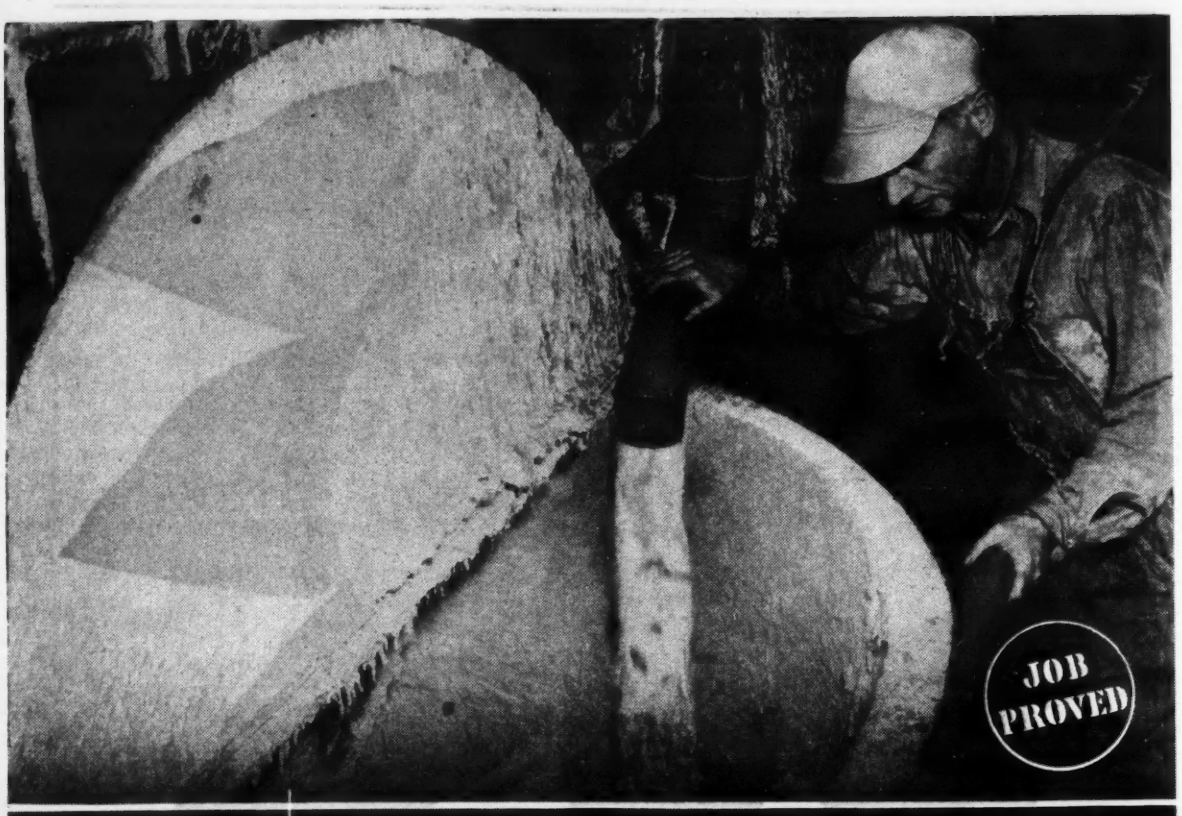
Osage orange crystals, bbls.	lb.	.29	- —
extract, No. 1, bbls.	lb.	.14	- —
Ouabaine, USP, bots.	gram.	3.00	- 4.00
Oxyquinolin sulphate, cns., 100 oz. lots	oz.	3.50	- —
small lots, works	lb.	3.75	- 4.15

P

Papain, powd., cs.	lb.	5.75	- 6.00
Papaverine, natural or synthetic, hydrochloride, NF, cns., 100-oz. lots	oz.	7.00	- —
smaller lots	oz.	7.05	- 7.35
Sulphate, cns.	oz.	7.10	- 7.35
Paprika, Calif., sweet Caliente, ground, bgs.	lb.	.40	- .41
Chilean, bgs.	lb.	.38	- .38½
Portuguese, bgs.	lb.	.38	- .41
Spanish, bgs.	lb.	.43½	- .44
Para-anisidin, dms., works	lb.	.75	- —
Parachlorophenol, dms., c.l., works, lb.		.24	- —
l.c.l., same basis	lb.	.25	- .27
Paracresol, bbls., works	lb.	.41	- —
Paracymene, dms., c.l., works	lb.	.1595	- —
l.c.l., same basis	lb.	.1645	- —
tanks, same basis	lb.	.1545	- —
Paradichlorobenesene, dms., c.l., works	lb.	.11	- .12
l.c.l., same basis	lb.	.12½	- .15
Paraffin,[1] crude scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery	lb.	.06¼	- —
fully ref'd slabs, loose 117-119 ASTM, c.l., refinery	lb.	.05	- —
123-125 ASTM, refinery	lb.	.0520	- —
125-127 ASTM, refinery	lb.	.0620	- —
128-130 ASTM, refinery	lb.	.0560	- —
130-132 ASTM, refinery	lb.	.0585	- —
133-135 ASTM, refinery	lb.	.0615	- —
135-137 ASTM, refinery	lb.	.0640	- —
Prices in bags 4/10c lb higher.			
Paraformaldehyde, dms., 1,000 lbs. or more, works	lb.	.21	- —
smaller lots, works	lb.	.22	- —
Paraldehyde, tech., 98% 55 and 110-gal. dms., l.c.l., wks.	lb.	.12	- —
10-gal. dms., works	lb.	.15	- —
USP, ebys., cns.	lb.	.35	- .45
Paranitroanilin, kgs., works	lb.	.41	- .43
Paranitrochlorobenzene, kgs., wks.	lb.	.15	- —
Paranitrophenol, kgs.	lb.	.35	- —
Paranitrotoluene, kgs., works	lb.	.30	- —
Paraphenylenediamine, tech., kgs.	lb.	1.25	- —
Paratoluenesulphonamide bbls.	lb.	.70	- —
Paratoluidin, bbls., works	lb.	.48	- —
Paris green,[1] dealer, distributor, dms., kgs., c.l., works, frt. alld.	lb.	.26	- —
l.c.l., same basis	lb.	.27	- —
Passion flower herb, bls.	lb.	.30	- .32
Patchouli leaves, bls.	lb.	.38	- .40
Pectin, bbls.	lb.	1.25	- —
Penicillin,[4,5] ampule, per 100,000 unit.		.38	- —
Pennyroyal leaves, bls.	lb.	.24	- .25
Pentachlorophenol, dms., works, lb.		.20	- .25
Pentaerythritol, CP, bbls. divd. lb.		.75	- —
smaller containers	lb.	1.00	- —
tech., bbls., c.l.	lb.	.27	- —
l.c.l.	lb.	.31	- —
Pentane, 28°-38° C., industrial grade, dms., c.l., Group 3, gal.		.11	- —
l.c.l., dms., Group 3, gal.		.19	- —
tanks, Group 3	gal.	.07½	- .07¾
28°-38° C. laboratory grade, 10-gal. cns., divd. E.	gal.	.55	- —
dms., c.l., Group 3	gal.	.16	- —
Group 2	gal.	.29	- —
Pepper, black,[7] bgs.	lb.	.82	- .84
futures, bgs., nearby	lb.	.66	- .67
November	lb.	.55	- .57
Red, capsicum, Carolina longs, new crop, bgs., ship't point.	lb.	.60	Nom.
sports, old crop, bgs.	lb.	No stocks	
Louisiana, longs, new crop, bgs., shipment point.	lb.	No stocks	
sports, bgs.	lb.	No stocks	
Niger, bgs.	lb.	.47	- .48
Chillies, Haitian, bgs.	lb.	.56	- .57
Mexican, long	lb.	.50	- .51
White,[7] bgs.	lb.	.70	- .72
Peppermint, dom., USP, bis.	lb.	1.20	- 1.25
imported, USP, bis.	lb.	1.25	- 1.30
Perchloroethylene, dms., c.l., Zone 1, works, frt. alld.	lb.	.0772-	.0900
Zone 2, same basis	lb.	.0832-	.0850
Zone 3, same basis	lb.	.0882-	.0900
Zone 4, same basis	lb.	.0876-	.0900
l.c.l., Zone 1, same basis	lb.	.0882-	.0850
Zone 2, same basis	lb.	.0882-	.0900
Zone 3, same basis	lb.	.0932-	.0950
Zone 4, same basis	lb.	.0926-	.0950

Perchloroethylene zones are:—(1) Conn., Del., Ill. Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va. Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah Wash.

Peru balsam, dms.	lb.	1.25	- 1.80
Petrolatum, tech., dark, bbls., c.l., Group 3	lb.	.021	- —
golden tapia, bbls., c.l.	lb.	.032	- —
l.c.l.	lb.	.036	- —
red, veterinarian, bbls., c.l.	lb.	.024	- —
l.c.l.	lb.	.028	- —
Petrolatum, USP, amber, non-ret. dms., c.l.	lb.	.04¼	- —
l.c.l.	lb.	.05¼	- —
extra amber, dms., c.l.	lb.	.04½	- —
l.c.l.	lb.	.05½	- —
cream, c.l., dms.	lb.	.05¾	- —
l.c.l.	lb.	.07¾	- —
white, lily, dms., c.l.	lb.	.06¼	- —
l.c.l.	lb.	.08¼	- —
snow, dms., c.l.	lb.	.06¾	- —
l.c.l.	lb.	.09	- —
soft, dms. c.l.	lb.	.06¼	- —
l.c.l.	lb.	.07¾	- —
yellow, soft, dms., c.l.	lb.	.03¾	- —
l.c.l.	lb.	.05¾	- —
Petroleum, crude, bulk, at wells, California, heavy grades	bbl.	1.28	- 1.96
Illinois	bbl.	1.67	- —
Kentucky, Union County	bbl.	1.62	- 1.67
Louisiana-Arkansas	bbl.	1.16	- 1.80
Montana	bbl.	1.20	- 1.69
Oklahoma-Kansas	bbl.	1.15	- 1.55
Pennsylvania, lower field	bbl.	3.25	- 3.35
Upper field	bbl.	1.66	- 3.00
Texas East	bbl.	1.60	- —
Gulf coast	bbl.	1.40	- 1.83
North, North-Central	bbl.	1.36	- 1.60
Panhandle	bbl.	1.06	- 1.50
West	bbl.	1.00	- 1.40
Wyoming	bbl.	1.15	- 1.55
Ether, laboratory grade, 30°-60° C, 10-gal. cns., divd. E.	gal.	.55	- —
dms., c.l., Group 3	gal.	.16	- —
l.c.l., same basis	gal.	.29	- —
35°-60° C, 10-gal. cns., divd. E.	gal.	.55	- —
dms., c.l., Group 3	gal.	.16	- —
l.c.l., same basis	gal.	.29	- —
40°-75° C., 10-gal. cns., divd. E.	gal.	.55	- —
dms., c.l., Group 3	gal.	.16	- —
l.c.l., same basis	gal.	.29	- —
Fuel oil, furnace, tanks, at refinery, Arkansas, No. 2.	gal.	.04½	- —
No. 3	gal.	.04½	- —
Bayonne, No. 2, tanks	gal.	.0610-	.0640
California, heavy	bbl.	1.25	- 1.30
light	bbl.	1.35	- 1.40
diesel	gal.	.04¾	- .05¼
Group 3, No. 1	gal.	.04¾	- .04¾
No. 2, straw	gal.	.04½	- .04¾
No. 3	gal.	.04	- .04½
Oklahoma, No. 1, p.w.	gal.	.04¾	- .05¼
No. 1, straw	gal.	.04¾	- —
No. 2, straw	gal.	.04½	- .04¾
No. 3	gal.	.04	- .04½
No. 6	bbl.	1.15	- 1.35
range	gal.	.04½	- —
Pennsylvania, No 1	gal.	.06¾	- .07
No. 2	gal.	.06¼	- .06¾
No. 3	gal.	.06¼	- .06¾
36-40 gravity	gal.	.06¼	- —
Bunker C (No. 6), tanks, Albany, N. Y.	bbl.	1.92	- —
Baltimore, Md.	bbl.	1.72	- —
Boston, Mass.	bbl.	1.96½	- —
Charleston, S. C.	bbl.	1.83	- —
Jacksonville, Fla.	bbl.	1.63	- 1.83
New York, N. Y.	bbl.	1.92	- 2.02
Norfolk, Va.	bbl.	1.88	- 1.93
Philadelphia, Pa.	bbl.	1.92	- 2.02
Portland, Me.	bbl.	2.01	- 2.06
Providence, R. I.	bbl.	1.98	- 2.04
Savannah, Ga.	bbl.	1.88	- —
Lacquer diluent, California, 100 l.b.n., 200 e.p., tanks, divd. Los Angeles	gal.	.12	- —
Fort Wells, Wash.	gal.	.13	- —
East Coast, N. J., N. Y., tanks, refinery	gal.	.12	- —
Group 3, benzol type tanks	gal.	.08⅞	- .09¾
toluol type, tanks	gal.	.08¾	- .09¼
San Francisco	gal.	.11½	- —
Willbridge, Ore.	gal.	.12	- —
Mineral spirits, California, San Francisco, 168-232 b.r., tanks	gal.	.10¾	- —
198-200 b.r., tanks	gal.	.11¼	- —
246-397 b.r., tanks	gal.	.11½	- —
Calif., San Francisco, 312/408 b.r., tanks	gal.	.10	- —
362-458 b.r., tanks	gal.	.10	- —
East Coast, N. J., N. Y., tanks, refinery	gal.	.10½	- —
Group 3, tanks, refinery	gal.	.07½	- —
Gulf coast, tanks	gal.	.07⅝	- —
tankwagon, Baltimore	gal.	.15½	- —
Boston	gal.	.12½	- —
Buffalo	gal.	.11	- —
Camden, N. J.	gal.	.11	- —
Chicago	gal.	.1460	- —
Detroit	gal.	.1710	- —
Kansas City, Mo.	gal.	.1280	- —
Lancaster, Pa.	gal.	.12½	- —
Newark	gal.	.11½	- —
New York	gal.	.11½	- —
Philadelphia	gal.	.11½	- —
Pittsburgh	gal.	.13	- —
Providence	gal.	.13½	- —
Rochester	gal.	.12	- —
St. Louis	gal.	.1370	- —
Syracuse	gal.	.1270	- —
Washington, D. C.	gal.	.15½	- —
Wilmington, Del.	gal.	.11½	- —
Naphtha, cleaners, California, tanks, San Francisco	gal.	.13	- —
East coast, N. J., N. Y., tanks, refinery	gal.	.11½	- —
Group 3, tanks, refinery,	gal.	.08½	- —
tankwagon, Newark	gal.	.12½	- —
Chicago	gal.	.14¼	- —
Detroit	gal.	.15½	- —
New York	gal.	.12	- —
Philadelphia	gal.	.125	- —
St. Louis	gal.	.1470	- —
High-solvency, No. 3, tanks, Paulsboro, N. J.	gal.	.16	- .23½
No. 30, tanks, same basis,	gal.	.17	- .23
No. 40, tanks, same basis,	gal.	.17¼	- .23
No. A-80, tanks, Carteret, N. J.	gal.	.21½	- —
Chicago, Cincinnati, Detroit	gal.	.24	Nom.
No. B-90, tanks, all shipping points	gal.	.24½	- —
No. F-80, tanks, Carteret, N. J.	gal.	.23	- —
V.M.&P., at refinery, California, 46.5, 254 l.b.p., 380 e.p., tanks, El Segundo	gal.	.12	- —
Richmond	gal.	.12½	- —
Willbridge, Ore., Pt. Wells, Wash.	gal.	.13	- —
64-77, 190 l.b.p., 310 e.p., Los Angeles	gal.	.11	- —
San Francisco	gal.	.11½	- —
Portland, Seattle	gal.	.12	- —
Group 3, tanks	gal.	.08½	- —
Gulf Coast (divd. New Orleans), tanks	gal.	.06⅝	- —



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SUN
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Petroleum naphtha, VM&P, tank-wagon, Boston..gal. .13½- —
Chicago .....gal. .1400- —
Detroit .....gal. .1710- —
Milwaukee .....gal. .15½- —
Minneapolis .....gal. .1540- —
Newark .....gal. .13 - —
New York.....gal. .12½- —
Philadelphia .....gal. .13 - —
Pittsburgh .....gal. .14 - —
St. Louis.....gal. .1470- —
Solvent, rubber, at refinery, California, San Francisco gal. .26½- —
East Coast, N. J., N. Y., tanks..gal. .11¼- —
Group 3, tanks.....gal. .08½- —
Stoddard (CS 8-83), at refinery:—
California (San Francisco). tanks..gal. .12 - —
East Coast, N. J., N. Y., Group 3, tanks.....gal. .07½- —
Pennsylvania, western, tanks..gal. .07¾- .08
tankwagon, Baltimore...gal. .14 - —
Boston .....gal. .12½- —
Chicago .....gal. .14½- —
Detroit .....gal. .16½- —
Milwaukee .....gal. .15½- —
Minneapolis .....gal. .1540- —
Newark .....gal. .13 - —
New York.....gal. .11½- —
Philadelphia .....gal. .12 - —
Pittsburgh .....gal. .13 - —
St. Louis.....gal. .14½- —
Syracuse .....gal. .1270- —
Sulphonates, 65% sulphonic content, ret. dms., c.l., works..lb. .09¾- —
l.c.l., works.....lb. .09¼- .10¾
tanks, works.....lb. .09¼- —
50% sulphonic content, ret. dms., c.l., works..lb. .08¾- —
l.c.l., works.....lb. .09¾- .10¾
tanks, works.....lb. .09½- —
Phenobarbital, cns. .....lb. 3.60 - 3.70
dms., 100 lbs.....lb. 3.50 - —
Phenol, 90-92% (cresol, 8-10%), dms., c.l., works, frt. equald. lb. .10¾- .11
l.c.l., same basis.....lb. .11½- .11¾
tanks, same basis.....lb. .09¾- .10½
82-84% (cresol, 16-18%), dms., c.l., same basis..lb. .10¾- .11¼
l.c.l., same basis.....lb. .11¼- .12
tanks, same basis.....lb. .09¾- .10¾
USP, dms., c.l., same basis..lb. .10½- .12½
l.c.l., same basis.....lb. .11¼- .13¼
tanks, same basis.....lb. .10 - .11¾
Phenolphthalein, USP, bbls., dms., 2,000 lbs..lb. .85 - —
smaller lots.....lb. .87 - .92
Yellow, fib. dms., 2,000 lbs..lb. .80 - —
smaller lots.....lb. .82 - .87
Phenothiazin, NF, fib. dms., ton lots or more, works..lb. .49 - —
smaller lots, works.....lb. .54 - —
Phenylacetaldehyde, solution, 50%, bots..lb. 2.35 - 2.50
pure, bots. .....lb. 4.00 - 5.00
Phenylethyl acetate, dms.....lb. 1.65 - 2.00
Phenylethylphenyl, acetate, bots. lb. 5.35 - 7.50
Phenylhydrazin, base, CP, bots..lb. 4.55 - —
Hydrochloride, CP, bots., works. lb. 7.10 - —
commercial, kgs., works...lb. 1.75 - —
Phloroglucinol CP, fib. dms...lb. 13.75 -14.75
tech., fib. dms.....lb. 12.00 -12.55
Phosgene, ton lots, works.....lb. .19 - —
Phosphate, defluorinated (see under D).
Phosphate rock,[1] Fla., land pebble unground, run-of-mine, washed, dried, 68%-66% b.p.l., bulk, car at mine, c.l..... long ton. 2.60 - —
70%-68%, same basis.. long ton. 3.00 - —
72%-70%, b.p.l., same basis..long ton. 3.60 - —
75%-74%, b.p.l., same basis..long ton. 4.60 - —
77%-76%, b.p.l., same basis..long ton. 5.60 - —
entirely pebble 50c. per ton higher than above prices.
finely ground, 66.5% b.p.l., 30% P_2O_5, minimum.. short ton. 3.15 - —
68%, b.p.l., basis 31% P_2O_5 minimum..short ton. 3.35 - —
70%, b.p.l., basis 32% P_2O_5 minimum..short ton. 3.70 - —
Tennessee, brown, unground, run-of-mine, 70-65% b.p.l., 5½% i. & a., same basis.. long ton. 5.50 - —
72%-70%, b.p.l., 5½% i. & a., same basis..long ton. 6.00 - —
refinery ground, 29% P_2O_5, same basis..long ton. 5.15 - —
30% P_2O_5, same basis.... long ton. 5.35 - —
31% P_2O_5, same basis..... short ton. 5.45 - —
32% P_2O_5, same basis.... short ton. 5.70 - —
33% P_2O_5, same basis.... short ton. 6.20 - —
Phosphorus, red amorphous, cs. lb. .40 - .44
tins, export.....lb. .55 - —
yellow, cns.....lb. .23 - .25
dms., c.l.....lb. .14¼- —
Oxychloride, dms., c.l.....lb. .10½- —
l.c.l., dms.....lb. .12½- .15
Pentoxide, dms., c.l., works.. lb. .11 - .13
l.c.l., works .....lb. .13 - .14
Sesquisulphide, cs. .....lb. .38 - .42
Trichloride, dms., c.l.....lb. .10¼- —
l.c.l. .....lb. .12½- .15
Phthalamide, bbls., works....lb. .35 - .40
kgs., works.....lb. .45 - .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. alld. E. of Denver..lb. .13 - .14½
l.c.l., same basis.....lb. .14 - .15½
Pichi leaves, ogs.....lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots.....oz. 6.00 - —
Pilocarpine hydrochloride, USP, bots., vis..oz. 5.25 - 6.50
Nitrate, bots., vis.....oz. 5.15 - 6.25
Pimento, Jamaica, bgs.....lb. .24 - .24½
Pinetar, retort, dms., incl., c.l., works, divd. E..gal. .31 - .37½
l.c.l., works, dms. incl..gal. .32 - —
tanks, divd. E.....gal. .27 - .29
Pinkroot, bls.....lb. 1.00 - 1.05
Piperazine hexahydrate, bots..lb. 16.00 -17.00
Pitch, burgundy (see B).
Coaltar, 160° m.p., bbls., c.l., works..ton. 19.00 - —
l.c.l., works.....ton. 22.00 - —
Cottonseed, dms., works....lb. .04 - .06
Hardwood, paper bgs., works.. lb. .03½- —
Linseed, dms.....lb. .05 - .05½
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms.....100 lbs. 6.50 - —
stands, 200 lbs.....stand. 6.00 - —
Soybean, dms., works.....lb. .04 - .06
Plaster of paris (see Gypsum).
Podophyllin, dms. .....lb. 12.25 -12.50

Pokeroot, bls.....lb. .16 - .17
Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld. lb. .33 - —
20,000 lbs., frt. alld.....lb. .33 - —
smaller lots, frt. alld....lb. .34 - .36
Water-clear, polystyrene, 7c. per lb. less than plain colors.
Pomegranate, root bark, bgs..lb. .75 - .78
Poppy flowers, bls.....lb. .60 - .70
Seed, Argentine, bgs, futures. lb. .20½- .21
Danish, bgs. .....lb. .26 - .26½
Dutch .....lb. .25½- .26
Indian, white, bgs.....lb. No stocks
Swedish, bgs.....lb. .21½- .22
Turkish, bgs. .....lb. .22 - .22½
Potash abietate.....lb. .06 - —
Acetate, USP, dms.....lb. .28 - .33
Arsenite, USP, solut., cbys., djns..lb. .13 - .15
Bicarbonate, USP, cryst., gran., bbls., dms..lb. .10 - .21
Bichromate,[1] bgs., c.l., works. lb. .10 - —
l.c.l., works.....lb. .10¼- .10¾
Potash bichromate in bbls. ¼c. higher.
Borate, gran., bbls., N. Y. or Chi..lb. .1015- —
Bromide, USP, cryst., gran., 500-lb. bbls., dms..lb. .25 - .29
Carbonate, calcined, bbls., c.l., works..lb. .06¼- —
l.c.l., same basis.....lb. .06¾- —
hydrated, 83-85%, bbls., works..lb. .05¼- —
dms., l.c.l., same basis lb. .05¾- —
USP, gran., bbls., dms....lb. .14 - .20
powd., bbls., dms. ....lb. .19 - .21
Caustic, low-chloride, 50% basis, flake, dms., c.l., works.. 100 lbs. 9.31 - —
l.c.l., works....100 lbs. 9.68¼- —

Potash, caustic, low-chloride, liquid, dms., c.l., works.... 100 lbs. 8.56 - —
l.c.l., works....100 lbs. 8.68½- —
tanks, works....100 lbs. 8.06 - —
solid .....100 lbs. 8.56 - —
l.c.l., works.....100 lbs. 8.93½- —
regular, flake, 88-92%, dms., c.l., works..lb. .07 - —
l.c.l., works.....lb. .07¼- .07½
liquid, 45% basis, dms., c.l., works, frt. alld..lb. .03¼- —
l.c.l., same basis....lb. .03½- .03¾
tanks, same basis.....lb. .02¾- —
solid, 88-92%, dms., c.l., works..lb. .06¼- —
l.c.l. .....lb. .06½- .06¾
Chromate, bgs.....lb. .24 - .28
Chlorate,[1] cryst., bgs., c.l., works..lb. .11 - .11¾
l.c.l., works.....lb. .119 - .130
powd., dms., kgs., c.l. works. lb. .09¾- —
l.c.l., works.....lb. .119 - .130
export, 1 to 10 tons, kgs., ex whse..lb. .16 - .18
Chloride, tech., cryst., 98% bgs. kgs..lb. .06 Nom.
Citrate, USP, gran., bbls., dms..lb. .33½- .38½
powd. 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, bbls.....lb. .34 - .40
Glycerophosphate, 75% solution, cns. cbys..lb. 1.65 - 1.67
dms., 1,000-lb. lots.....lb. 1.50 - —
100-lb. lots.....lb. 1.60 - —
Guaiacosulphonate, NF, dms.lb. 1.65 - 1.75
Hydroxide, USP, sticks, dms.lb. .34 - .36
Hypophosphite, cns.....lb. .72 - .75
Iodate, bots., 5 lbs.....lb. 3.40 - —
cns., 25 lbs.....lb. 3.35 - —
Iodide, bots., cns.....lb. 1.44 - 1.48
dms. .....lb. 1.35 - 1.38

Potash, manure salt, 22%, K_2O, Carlsbad, N. M..unit-ton. .20 - —
25% K_2O, same basis.unit-ton. .21 - —
Metabisulphite, gran., bbls...lb. .19 - .21
powd., bbls.....lb. .26 - —
Muriate,[4] dom., 60-62-63% K_2O, bulk, ex vessel ports..... unit-ton. .53½- —
granular, 50-52% K_2O, ex vessel U. S. ports..unit-ton. .83½- —
Domestic muriate of potash prices, basis f.o.b. Carlsbad, N. M. are 11.2c. per unit of K_2O less than ex vessel price, basis Trona, Cal.; 8c. per unit of K_2O less than ex vessel price at Pacific coast ports.
Nitrate (see Saltpeter).
Oxalate, neutral, pure, gran., bbls., dms..lb. .37 - .50
tech. fine gran., bbls., dms. lb. .28 - .31
Perchlorate, kgs., works....lb. .09¾- .11
Permanganate, tech., dms., works..lb. .19¾- .20¼
USP, dms., works.....lb. .20¼- .21
Persulphate, dms., c.l. works, lb. .16 - —
l.c.l., same basis.....lb. .20 - —
Prussiate, red, kgs.....lb. .50 - .55
Yellow, bbls.....lb. .16 - .17
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l. works. ton. 200.00 - —
l.c.l. .....100 lbs. 15.25 - —
solution, 29° Be, ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works... 100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works 100 lbs. 4.75 - —
l.c.l., 5 or more, works.. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —

Why Most Laboratories Use This One Petroleum Ether

To Maintain Unvarying Accuracy of Findings Month after Month!

"Doc" MacGee says:

Chemists making tests requiring the use of petroleum ether face this peculiar problem—petroleum ethers and other petroleum naphthas of the same boiling range probably will vary in chemical composition if obtained from different sources.

Because petroleum fractions are composed of many different compounds, differing in solvency, gravity, odor, and other qualities, tests made with two petroleum ethers of the same boiling range may have different results.

This fact is particularly important. For exhaustive research shows that the solvent action of different petroleum hydrocarbons on cottonseed meal and other oleaginous products is not the same. Consequently, unless a laboratory standardizes on one petroleum ether, the accuracy of its findings may be impaired.

To meet this problem, most laboratories standardize on Skellysolve "F"—the first petroleum ether made to meet the new specifications of the American Oil Chemists' Society—and the one used by the majority of referee, commercial and industrial laboratories in the oil and fat industry.

If you use petroleum ether, you can eliminate one possible variable in your test conditions by standardizing on Skellysolve "F".

Whatever your requirements in petroleum solvents may be, it will pay you to talk to Skelly. As you know, Skellysolve has been the "standard" since Skelly pioneered the large scale production of hexane, heptane, and octane type naphthas from natural gas in 1930.

SKELLY

SKELLYSOLVE

SOLVENTS DIVISION, SKELLY OIL COMPANY
SKELLY BLDG., KANSAS CITY, MISSOURI

Potash silicate, solut., 40.5° Be, ret. dms., c.l., works... 100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Sulphate,[9] NF, gran.....lb. .14 - .20
powd., bbls .....lb. .15 - .21
tech., dom., bulk,[9] basis 90-95% K_2O_4, min. 50%, ex vessel Atlantic or Gulf ports..ton.26.25 - —
West coast potash ports, same basis..ton.29.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Triocyanate (see Potash sulphocyanide)
Xanthate, dms.. c.l.....lb. .12 - —
Potash-gold cyanide, 41% gold, bots., works..oz.14.20 -14.95
Potash-magnesia sulphate,[9] bulk, min., 40% K_2SO_4, 18.50% MgO, ex vessel, ports...ton.26.00 - —
Potash-soda ferricyanide, kgs., works..lb. .40 - .43
Potash-titanium oxalate, bbls., dms..lb. .45 - .50
Prickly ash bark, bls.....lb. .40 - .45
Berries, bgs. .....lb. .20 - .21
Prince's pine herb, bls.....lb. .50 - .65
Procaine hydrochloride, cns., 100-lb. lots..lb. 3.75 - —
smaller lots .....lb. 4.00 - —
Propane,[1] industrial grade, tanks, Group 3..gal. .03¾- —
Propyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Psyllium seed (see Fleaseed).
Pulsatilla bls. .....lb. .60 - .65
Pumice, grd., fine, bgs., ton lots. lb. .03¾- —
smaller lots.....lb. .03¾- .04
coarse, 0, 1, 1½, 2, 3, bgs., ton lots..lb. .03¾- —
smaller lots.....lb. .03¾- .04¼
Chl., ton lots.....lb. .04¼- —
Pumice in bbls. 1c ¾c. per lb. higher.
Pumpkin seed, bgs.....lb. .27 - .28
Purple lake (see Red).
Putty, com'l dms.....100 lbs. 3.15 - —
linseed oil, raw, dms...100 lbs. 5.00 - —
refined, dms.....100 lbs. 5.50 - —
standard, dms.....100 lbs. 4.20 - —
Pyrethrum,[1] concentrate, dewaxed, 20% for aerosol bombs, dms., works..lb. 9.25 - 9.50
liquid (20 to 1), basis 2 grams pyrethrins for 100 cc., dms.. regular base, works..gal. 6.65 - —
odorless base, dms., works. gal. 6.75 - —
(30 to 1), base 3 grams pyrethrins, per 100 cc., bbls., works..gal.10.00 - —
Pyrethrum, flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pyrethrins, bbls., works..lb. .26 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.60
refd., 2°, ret. dms., same basis. lb. .45 - 45½
Pyrites, Spanish, c.i.f. Atl. ports long ton. 6.00 10.00
Pyrocatechin (see Catechol).
Pyrophyllite, standard, 200 mesh, c.l., bulk, mines..ton.10.00 -11.50
325 mesh, same basis.....ton.12.00 -13.90
No. 3, 200 mesh, c.l., mines.ton. 9.50 - —
325 mesh, same basis....ton.11.50 - —
Pyrophylite in paper bgs., $1.50 per ton extra.
Pyroxylin, scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .17 - —
gray, cs., works.....lb. .17 - —
mixed mottled, cs., wks.lb. .14 - —
white, China, ivory, cs., wks. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works..lb. .17 - —
transparent, cs., works....lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, amber, cs., works. lb. .17 - —
mixed colors, cs., works..lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .08 - .09
Quebracho extract, solid, 63% tannin, bgs., c.l., ex dock, in bond..lb. .063125- .06525
clarified, 64% tannin, bgs., c.l., same basis..lb. .068125- .070625
dissolved, 55% tannin, bbls., works..lb. .04575- .0595
tanks, works.....lb. .04075- —
ground, 70% tannin, bgs., c.l. lb. .069 - —
l.c.l. .....lb. .0915- —
Quebracho extract prices based on $12 freight and $1 insurance per long ton.
Queen of the meadow root, bgs. lb. .12 - .15
Quercitron crystals, bbls.....lb. .22 - —
Extract, No. 1, bbls.....lb. .13 - —
solid, bxs. .....lb. .28 - —
Quicksilver, flasks (76 lbs. net) flask.93.00 -94.00
Quince seed, bgs.....lb. 1.30 - 1.75
Quinidine,[9] NF V, cryst., cns.oz. No stocks
powd., precip., cns.....oz. No stocks
Sulphate, USP, cns.....oz. No stocks
Quinine,[9] NF, cns., 100 ozs...oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs. oz. No stocks
Dihydrobromide, bots., 50 ozs., oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Ethylcarbonate, USP, cns., 100 ozs..oz. No stocks
Ferrocyanide, cns., 100 ozs.oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Glycerophosphate, cns., 100 ozs. oz. No stocks
Hydrochloride, USP, cns., 100 ozs..oz. .80½- —
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydriodide, cns., 100 ozs..oz. No stocks
Hypophosphite, cns., 100 ozs.oz. No stocks
Phosphate, NF, cns., 100 ozs.oz. No stocks
Salicylate, NF, cns., 100 ozs. oz. No stocks
Sulphate, USP, cns., 100 ozs.oz. .80½- —
Sulphocarbolate, cns., 100 ozs. oz. No stocks
Tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs..oz. No stocks
Quinine-urea hydrochloride,[9] USP, cns..oz. No stocks
Quinoline, dms., c.l., works...lb. .24½- .30

R

R salt, dry, bbls.....lb. .65 - —
paste, dms. .....lb. .52 - —
Raspberries, dried, bls.....lb. 2.20 - 2.25
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. 1.10 - 1.90
Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.); Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.) (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. per lb. higher dlvd. Pacific Coast prices equaled with Chicago dlvd. Denver, Pueblo, Salt Lake City, Wichita.
Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.05 - 1.30
light shade, bbls., same basis..lb. .90 - 1.15
maroon, bbls., same basis.. lb. 1.15 - 1.25
medium shade, bbls., same basis..lb. 1.00 - 1.10
medium-light shade, bbls., same basis..lb. .95 - 1.05
Orange-red, bbls., same basis..lb. .95 - 1.00
Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.
Carmine, No. 40, dms., bulk, works..lb. 5.50 - —
smaller lots same basis..lb. 6.10 - —
Crocus Martis (see Red, purple ox'ide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works....lb. 1.35 - —
Firetoner, dom., bbls., works.lb. .85 - .92
Indian, dom., pure, bls., Bethlehem, Easton, E. St. Louis, N. Y...lb. .09½- —
80-85%, bbls., same basis.lb. .09¾- —
imp., English, all shades..lb. .12 - —
Iron oxide, pure, bbls.....lb. .09 - .09¾
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa.; and E. St. Louis..lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .094
Lacquer, maroon, bbls., works. lb. 1.20 - —
Lake C toner, alizarin, bbls., works..lb. .90 - .97
Lithol toner, alizarin, lake, bbls., works..lb. .65 - —
Pink, bbls., works.....lb. .20 - .25
Rose lake, bbls., works....lb. .25 - .28
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.18 - —
Maroon, alizarin lake 25% kgs., works..lb. .40 - —
Cadmium, bbls., works.....lb. 1.10 - —
deep, bbls., same basis..lb. 1.20 - —
Maroon, in smaller pkgs., 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.60 - —
smaller lots, works...lb. 2.62 - —
Metallic, bbls., works.....lb. .02 - —
Oxide (see Red, iron oxide).
Para toner, chlorinated, kgs.lb. .02 - —
concent., alizarin lake, kgs., works..lb. .70 - .75
Persian (see Orange).
Phloxin toner (see Red, eosin toner).
Phosphotungstic, rhodamine, Y, kgs., works..lb. 4.15 - —
Purple lake, kgs.....lb. 1.00 - —
Scarlet ink toner, kgs., works. lb. .85 Nom.
Spanish oxide, grade 1, c.l., bbls..lb. .04½- .07¾
Toluidin toner, alizarin lake, kgs., works..lb. 1.05 - 1.15
MNPT maroon toner, kgs., works..lb. 3.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .11 - —
Venetian, 5%, bbls., wks.....lb. .0220- —
10%, bbls., works.....lb. .0245- —
15%, bbls., works.....lb. .0263- —
20%, bbls., works.....lb. .0275- —
25%, bbls., works.....lb. .03 - —
30%, bbls., works.....lb. .0325- —
35%, bbls., works.....lb. .0360- —
40%, bbls., works.....lb. .04 - —
Vermilion, Amer., bbls.....lb. .25 - .40
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., fib. dms..lb. 2.77 - 2.79
Red saunders wood grd., bbls.lb. .35 - —
Resorcinol, tech., dms., works.lb. .64 - .74
USP cryst., dms., frt. alld..lb. 1.60 - —
Rhatany root, bgs.....lb. .14 - .16
Rhubarb, whole, cs.....lb. 1.45 - 1.50
powd., bbls.....lb. 1.55 - 1.60
Riboflavin, bots. .....kilo.200.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif., seller's option, lb. .70 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs., 1 ship't..lb. .24½- —
smaller lots.....lb. .25 - —
Rose flowers, pale, bls.....lb. .33 - .34
Rosemary flowers, bls.....lb. 1.55 - 1.60
Leaves, French, bls.....lb. .13 - .14
Portuguese, bls.....lb. .08½- .10
Spanish, bls. .....lb. .12¾- .13

Great name in the Petroleum Industry...

Ideal Industrial Solvents for You!

Hundreds of industries look to Esso Representatives for honest, friendly advice in the application of industrial solvents. Esso sells both aromatic and aliphatic solvents. Constant uniformity and suitability are assured by the close, continuing product control maintained at our large refineries and laboratories. One of the many different grades of Esso Petroleum Solvents will serve you, whatever your requirements.

STANDARD OIL COMPANY OF NEW JERSEY
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Baltimore, Md. — Columbia, S. C.
Richmond, Va. — New Orleans, La.
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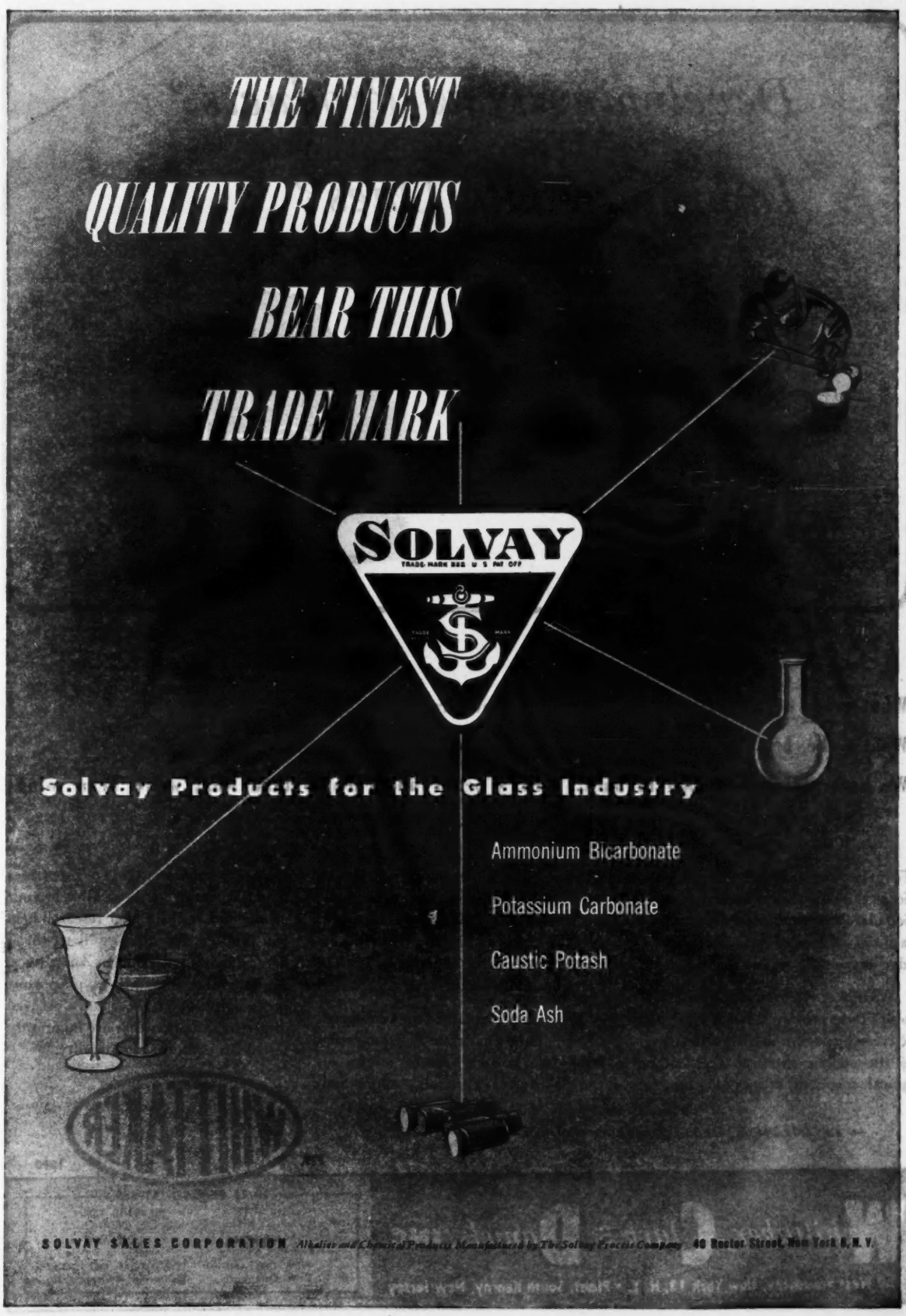
STANDARD OIL COMPANY OF PENNSYLVANIA
Philadelphia, Pa.

COLONIAL BEACON OIL COMPANY
Boston, Mass. — New York, N. Y.

Rosin, gum—
B, dms., c.l.....100 lbs. 7.75 - —
D, dms., c.l.....100 lbs. 7.95 - —
E, dms., c.l.....100 lbs. 8.25 - —
F, dms., c.l.....100 lbs. 8.77 - —
G, dms., c.l.....100 lbs. 8.77 - —
H, dms., c.l.....100 lbs. 8.86 - —
I, dms., c.l.....100 lbs. 8.86 - —
K, dms., c.l.....100 lbs. 8.86 - —
M, dms., c.l.....100 lbs. 8.86 - —
N, dms., c.l.....100 lbs. 8.86 - —
WG, dms., c.l.....100 lbs. 8.86 - —
WW, dms., c.l.....100 lbs. 8.90 - —
X, dms., c.l.....100 lbs. No prices
Wood, B (resin), dms., c.l., works..100 lbs. 4.60 - —
FF, dms., c.l., works.100 lbs. 5.50 - —
G, H, I, dms., c.l., works. 100 lbs. 5.95 - —
K, dms., c.l., works..100 lbs. 6.00 - —
M, dms., c.l., works..100 lbs. 6.05 - —
N, dms., c.l., works..100 lbs. 6.15 - —
WG, dms., c.l., works.100 lbs. 6.25 - —
WW, X, dms., c.l., works... 100 dms. 6.40 - —
Rotenone,[1] bbls., works.....lb.12.05 - 14.50
extract, liq., dms., works..... per unit. 1.15 - —
powder (see Cube root).
Rottenstone,[1] bgs., c.l., mines... ton.25.50 - —
c.l., mines.....ton.37.50 - —
Rue, bls. .....lb. .45 - .46

S

Sabadilla seed, powd., bbls....lb. .55 - .70
activated, ground with lime, bbls..lb. .35 - .50
Saccharin,[1] insoluble and soluble, 1,000 lbs. and up..lb. 1.30 - 1.35
smaller lots .....lb. 1.40 - 1.60
Saffron, Mexican, bls. .....lb. 1.60 - 1.65
Spanish, USP, tins.....lb.38.00 -39.00
Safrol, cns. .....lb. 1.10 - 1.15
Sage, leucophyla, bgs., Pacific coast..lb. .32 - .33
Cyprus, good, bls.....lb. .18 - .18½
futures .....lb. .17 - .17½
Dalmatian, bls., futures.....lb. .31 Nom.
Greek, bls. .....lb. .29 - .29½
Palestine, bls. .....lb. .16 - .16½
Spanish, bls. .....lb. .13 - .13½
Washington, Dalmatian-type, bls..lb. .40 - .41
Sago flour, bgs. .....lb. .10 - .12
Salicin, bots., 5 lbs. .....lb. No stocks.
cns., 25 lbs. .....lb. No stocks.
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. .90 - —
fib. dms. .....lb. .92 - .96
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.15.80 - —
l.c.l., bgs. .....ton.20.60 - —
vacuum, common, fine, bgs., c.l..ton.16.90 - —
l.c.l., ...ton.23.40 - —
Saltcake, dom., bulk, works.ton.15.00 - —
Chrome (see Chrome cake).
Saltpeter, dbl. ref., gran., bbls., 10 ton lots..100 lbs. 8.20 - —
smaller lots .....100 lbs. 8.35 - 9.00
powd., bbls., 10-20 ton lots.. 100 lbs. 9.20 - —
smaller lots .....100 lbs. 9.35 - 9.60
Sanguinarine nitrate, bots....oz. 3.75 - —
Santonin, cryst., powd., cns.kilo.170.00 -185.00
Saponin, No. 1, cns.....lb. 1.75 - 1.90
No. 2, cns. .....lb. 1.40 - —
Sarsaparilla root, dom., bls..lb. .45 - .50
Honduras, bls. .....lb. .45 - .47
Mexican, bls. .....lb. .45 - .47
Sassafras bark, ord., bls.....lb. .45 - .50
select, bls. .....lb. .69 - .75
Savory, Calif., bls.....lb. .75 - .76
Spanish, bls. .....lb. .22 - .22½
Saw palmetto berries, bgs....lb. .20 - .21
Scammony resin, lump, cns...lb. 1.30 - —
powd., cns. .....lb. 1.35 - —
Root, bgs. .....lb. .10 - .13½
Schaeffer's salt, bgs.....lb. .46 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .30¾- —
smaller lots.....lb. .31¼- —
kegs, 5,000 lbs., 1 shipm't..lb. .31¼- —
smaller lots.....lb. .31¾- —
Selenium, pwd., cns., 10-lb. lots.. lb. 1.85 - —
cs., 1,000-lb. lots.....lb. 1.75 - —
Senega root, bls.....lb. 2.40 - 2.50
Senna leaf, Alex., half-leaf, bls. lb. .27 - .28
siftings, bgs.....lb. .24 - .25
Tinnevelly, No. 1, bls.....lb. .24 - .29
2, bls.....lb. .20 - .27
3, bls.....lb. .20 - .24
powd., bbls., bgs.....lb. .24 - .29
Pods, bls.....lb. .14 - .21
Serpentaria root, bls.....lb. 2.75 - 2.80
Shellac, bleached, bonedry, bbls., 1,500-lb. lots..lb. .71 - —
Boston .....lb. .72 - —
Chicago .....lb. .72½- —
Pacific coast.....lb. .74½- —
refined, bbls., 1,500-lb. lot. lb. .78½- —
Boston .....lb. .79½- —
Chicago .....lb. .80 - —
Pacific coast.....lb. .82 - —
Bonedry shellac sales of less than 1,500 lbs., at following additions to prices: (1) packed in bgs., ¾c. per lb.; (2) bbls., 1c. more; (3) kgs., 3c. more.
Superfine, 100 bgs., Boston, N.Y. lb. .72 - .73
Chicago .....lb. .72½- .73
Pacific coast.....lb. .75 - .76
TN, 100 bgs., Boston, N. Y..lb. .67 - .68
Chicago .....lb. .67½- .68½
Pacific coast.....lb. .70 - .71
Shellac in cs., 2c. higher. Shellac sales 1 bg. or 1 cs., 5c. additional; 1 to 9 bgs. or cs., 2c. more; 10 to 99 bgs., cs., 1c. more.
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works. ton.17.00 - —
l.c.l., works.....ton.20.00 - —
400 mesh, bgs., c.l., works. ton.18.00 - —
l.c.l., works.....ton.19.00 -20.00
wet-grd., 325 mesh, bgs., c.l., works..ton.18.00 - —
l.c.l., works.....ton.21.00 - —
400 mesh, bgs., c.l., works. ton.30.00 - —
l.c.l., works.....ton.35.00 -38.00
99%-98%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.21.50 -23.00
99%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.22.00 -25.00
Hard-quartz, 99¼%, 325 mesh, bgs., c.l., works..ton.15.50 - —
l.c.l., works.....ton.18.50 - —
140 mesh, bgs., c.l., works.. ton.11.00 - —
l.c.l., works.....ton.16.00 - —
Silicon tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .18½- .27
Silver bullion.....oz. .90½- .91
Cyanide, cns., 100 ozs.....oz. .74⅜- —
Nitrate, bots., cns., 2,500-oz. lots..oz. .58¼- —
1,000-oz. lots.....oz. .58½- —
500-oz. lots.....oz. .58⅝- —
single ounces.....oz. .59 - —
Silver neucleinate, USP, bots., dms., 1,000-oz. lots..oz. .390 - —
Proteinate, USP, bots., dms., 1,000-oz. lots..oz. .225 - —
Simarubra bark, bls.....lb. .87 - .88
Skullcap, Eastern, bls.....lb. .60 - .65
Western, bls.....lb. .50 - .55
Skunk cabbage root, bls.....lb. .45 - .50
Slate flour, bgs., c.l., works..ton.11.00 -12.00
l.c.l., works.....ton.12.00 -16.00
Sloe berries, bgs.....lb. .40 - .41
Smalt, black, ctns.....lb. .05 - .06
Blue, ctns.....lb. .07 - .08½
Snakeroot, Canada, bls.....lb. .65 - .70
Soapbark, bls.....lb. .27 - .28
crushed, bls., bbls.....lb. .32 - .33
cut, dom., bls., bbls.....lb. .32 - .33
imp., bbls. .....lb. No stocks
powd., bbls.....lb. .30 - .31
Soda acetate, anhyd., dms., dlvd. lb. .08½- .10
cryst., NF, bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., dlvd....lb. .05½- .07
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms.....lb. 1.50 - 1.60
Alkylbenzene sulphate, dms., works..lb. .13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.50 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works.. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.50 - 8.00
Antimoniate, bbls., dlvd.....lb. .16 - .16½
Arsenate, dms., dealers, c.l., works..lb. .09½- —
l.c.l., works.....lb. .10¾- .11¼
Soda arsenite, grey, dms., dealers, c.l., works..lb. .09¾- —
l.c.l., works.....lb. .10½- .11½
Soda arsenite, gray ¾c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.
Ash, dense, 58%, bgs., c.l., 100 lbs. .90 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.18 - —
2 .....100 lbs. 2.33 - —
3 .....100 lbs. 2.58 - —
4 .....100 lbs. 2.98 - —
bbls., c.l., works, zone 1. 100 lbs. 1.35 - —
l.c.l., zone 1.....100 lbs. 1.35 - —
2 .....100 lbs. 2.50 - —
3 .....100 lbs. 2.75 - —
4 .....100 lbs. 3.15 - —
bulk, c.l., works...100 lbs. .95 - —
extra light, 58%, bgs., c.l., 100 lbs. 1.18 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.13 - —
2 .....100 lbs. 2.28 - —
3 .....100 lbs. 2.53 - —
4 .....100 lbs. 2.93 - —
bbls., c.l., works...100 lbs. 2.35 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.45 - —
2 .....100 lbs. 2.60 - —
3 .....100 lbs. 2.85 - —
4 .....100 lbs. .90 - —
bulk, c.l., works...100 lbs. .90 - —
light, 58%, bgs., c.l., works. 100 lbs. 1.05 - 1.13
l.c.l., dlvd., zone 1..... 100 lbs. 2.13 - —
2 .....100 lbs. 2.28 - —
3 .....100 lbs. 2.53 - —
4 .....100 lbs. 2.98 - —
Soda ash, light, 58%, bbls., c.l., works..100 lbs. 1.86 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.35 - —
2 .....100 lbs. 2.50 - —
3 .....100 lbs. 2.75 - —
4 .....100 lbs. 3.15 - —
bulk, c.l.....100 lbs. .90 - —
Soda ash sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. and Va.; also Ala., La., and Miss., S. of 31°, Tex. E. of 100°, S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark., E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 98°, Kans., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
Open market prices are 5 percent higher, according to OPA ceiling.
Benzoate, tech., bbls., 2 tons or more..lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons or more.lb. .46 - —
smaller lots.....lb. .47 - .52
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l. .....100 lbs. 2.57½- 2.59
Bichromate,[1] bgs., c.l., works.. lb. .07¾- —
l.c.l., works.....lb. .07¾- .08¼
Soda bichromate, in bbls., ½c. higher.
Bifluoride, bbls., c.l., frt. alld. E..lb. .11¼- —
l.c.l., same basis.....lb. .12 - .14
kgs., same basis.....lb. .12½- .14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Caustic Potash
Soda Ash
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Soda bisulphite, powd., bbls., c.l., works	100 lbs.	3.00 - 3.10
l.c.l., works	100 lbs.	3.50 - 3.60
solut., 32°, bbls., c.l., works	100 lbs.	1.30 - —
l.c.l., works	100 lbs.	1.55 - —
30°, bbls., c.l., works	100 lbs.	1.35 - —
l.c.l., works	100 lbs.	1.60 - —
35° bbls., c.l., works	100 lbs.	1.40 - —
l.c.l., works	100 lbs.	1.65 - —
40°, bbls., c.l., works	100 lbs.	1.55 - —
l.c.l., works	100 lbs.	1.80 - —
Bromide, USP, gran., bbls., 500 lbs., works	lb.	.25 - —
dms., works	lb.	.25 - .29
Cacodylate, bots., dms	lb.	8.50 -10.50
Carbonate (see Soda ash, Soda monohydrate, Soda sal).		
Caustic, flake, powd., 76%, dms., c.l., works	100 lbs.	2.70 - —
l.c.l., Zone 1, dlvd	100 lbs.	3.55 - —
2, dlvd	100 lbs.	3.70 - 5.05
3, dlvd	100 lbs.	3.95 - 5.30
4, dlvd	100 lbs.	4.35 - 5.70
liquid, 47-49%, buyer's tanks, works, dry basis	100 lbs.	1.92½- —
sellers, tanks, works, dry basis	100 lbs.	1.95 - —
73%, buyers' tanks, works, dry basis	100 lbs.	1.97½- —
seller's tanks, works, dry basis	100 lbs.	2.00 - —
solid, 76%, dms., c.l., works	100 lbs.	2.30 - —
l.c.l., zone 1, dlvd	100 lbs.	3.15 - —
2 dlvd	100 lbs.	2.30 - —
3, dlvd	100 lbs.	3.55 - —
4, dlvd	100 lbs.	3.95 - —
Caustic soda zones are same as soda ash.		

Open market prices are 5 percent higher, according to OPA ceiling.

Soda chlorate, cryst., bgs., c.l., works	lb.	.06½- —
l.c.l., works	lb.	.06½- —
powd., kgs., c.l., works	lb.	.06½- —
l.c.l., works	lb.	.07 - .08½
Chloride (see Salt).		
Chromate,[1] bbls., cks., c.l., works, frt. equald	lb.	.09¾- —
l.c.l., works, frt. equald	lb.	.09½- .09¾
Soda chromate in bgs. is ½c. less.		
Citrate, USP VIII, bbls	lb.	.18½- —
dms.	lb.	.19½- .22½
USP XII, gran., bbls	lb.	.24 - —
dms.	lb.	.25 - .29
powd., bbls	lb.	.24½- —
dms.	lb.	.25½- .29½
Cyanide, 96-98%, dms	lb.	.14½- .15
Diacetate, 33-35% acidity, bbls., dlvd	lb.	.09½- .10½
anhydrous, dms., dlvd	lb.	.12½- —
Fluoride, white, 90%, bbls., c.l., works	lb.	.07 - —
l.c.l., works	lb.	.08 - —
95%, bbls., c.l., works	lb.	.07¼- —
l.c.l., works	lb.	.08¼- —
Soda fluoride prices at Los Angeles are f.a.s. works.		
Formate, bgs., c.l., works	lb.	.0635- —
l.c.l., works	lb.	.0680- —
Glutamate, monobasic, kgs.	lb.	1.04 - 1.06
Glycerophosphate, NF, crys., bbls., 100 lbs.	lb.	1.25 - —
dms.	lb.	1.40 - —
powder, 5c. higher.		
solution, 50%, cbys., cns	lb.	.82 - .90
Hydrosulphite, dms., c.l., frt. alld	lb.	.16½- —
l.c.l., frt. alld	lb.	.18 - —
Hydroxide, USP, sticks, dms.	lb.	.24 - .25
Hypophosphite, NF, cns	lb.	.67 - .70

Soda hyposulphite, cryst., bgs., c.l., works, frt. equald	100 lbs.	2.25 - —
l.c.l., same basis	100 lbs.	2.50 - —
pea, cryst., bgs., c.l., works	100 lbs.	2.60 - —
Soda, hyposulphite, crystals, in bbls., 20c. higher; pea crystals, dms., 50c. higher.		
USP, cryst., bbls	lb.	.10 - .12
Iodate, dms., jars	lb.	5.40 - 5.48
Iodide, bots.	lb.	2.53 - 2.57
dms., jars	lb.	2.42 - —
Mandelate, dms.	lb.	3.25 - 3.35
Metaborate, gran., bbls., c.l., dlvd	lb.	.0485- —
l.c.l., N. Y. or Chi	lb.	.051 - —
bgs., c.l., dlvd	lb.	.0435- —
l.c.l., N. Y. or Chi	lb.	.046 - —
Metanilate, bgs.	lb.	.40 - —
Metasilicate, anhyd., dms., c.l., works, frt. equald	100 lbs.	4.00 - —
l.c.l., same basis	100 lbs.	4.90 - 5.30
gran., bbls., c.l., works, frt. equald	100 lbs.	2.50 - —
l.c.l., dlvd	100 lbs.	3.30 - 3.55
Methylate, bots., works	lb.	1.00 - —
cns., works	lb.	.55 - .60
dms., works	lb.	.45 - .60
Molybdate,[1] anhyd., kgs., works,	lb.	.47 - —
crystals, bgs., works	lb.	.60 - —
Monohydrate, bgs., c.l.	100 lbs.	2.90 - —
works	100 lbs.	2.45 - —
Naphthionate, bbls.	lb.	.50 - —
Nitrate, dom., crude, 100-lb. bgs., c.l., works	ton.	30.05 - —
bulk, c.l., works	ton.	27.00 - —
refd., gran., bbls., 10 tons.	100 lbs.	3.60 - —
smaller lots	100 lbs.	3.75 - 4.00
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse	ton.	38.50 - —
bulk, same basis	ton.	35.50 - —

Soda nitrite, 96-98%, bbls., c.l., works, frt. equald	lb.	.06¾- —
West coast, ports	100 lbs.	8.00 - 8.05
l.c.l., dlvd.	100 lbs.	8.90 -11.90
Orthosilicate, anhyd., dms., c.l., works, frt. equald	100 lbs.	4.50 - —
l.c.l., same basis	100 lbs.	5.45 - 5.80
flake, dms., c.l., works	100 lbs.	3.10 - —
l.c.l., dlvd.	100 lbs.	4.30 - 4.35
Oxalate, neut., bgs., works	lb.	.10 - —
Pantothenate, dextrorotary, 100-gram bots., per gram		.10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald	lb.	.17 - .18
powd., bgs., c.l., works, frt. equald	lb.	.16 - .16½
l.c.l., works, frt. equald	lb.	.17 - —
kgs., l.c.l., works, frt. equald.	lb.	.19 - —
Perborate, NF, bbls., c.l., works.	lb.	.14¾- —
l.c.l., works	lb.	.15½- —
Peroxide, dms., c.l., dlvd, E. of Miss.	lb.	.14 - —
smaller lots	lb.	.17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works	100 lbs.	6.00 - 6.25
l.c.l., works	100 lbs.	6.40 - 6.75
cryst., bgs., c.l., works	100 lbs.	2.55 - 2.70
l.c.l., works	100 lbs.	2.95 - 3.45
USP XII, dried, bbls., dms., works	lb.	.130 - —
monobasic, anhydrous, bgs., c.l., works	100 lbs.	7.25 - 8.25
l.c.l., works	100 lbs.	7.65 - 9.00
tribasic, anhydrous, bgs., c.l., works, frt. equald	100 lbs.	6.00 - 6.95
l.c.l., same basis	100 lbs.	6.50 - 7.00
cryst., bgs., c.l., works	100 lbs.	2.70 - —
l.c.l., same basis	100 lbs.	3.10 - —
kgs., c.l., works	100 lbs.	3.40 - —
l.c.l., works	100 lbs.	3.80 - —

USP (see Sodium phosphate, dibasic).
Soda phosphate in bbls. 20c. higher.

Prussiate, yellow, bgs.	lb.	.10¾- —
bbls.	lb.	.11 - —
Pyrophosphate, ferric, dms., 10,000 lbs., works	lb.	.22 - —
smaller lots, works	lb.	.22½- —
tetrabasic, anhydrous, bgs., c.l., works, frt. equald.	100 lbs.	5.25 - —
Ricinoleate, tech., bbls	lb.	.12 - —
Sal, bgs., c.l	100 lbs.	1.35 - —
works, c.l.	100 lbs.	1.10 - —
bbls., c.l.	100 lbs.	1.40 - —
works, c.l.	100 lbs.	1.20 - —
Salicylate, dms	lb.	.52 - .54
Sesquicarbonate, bgs., c.l., works	100 lbs.	1.50 - —
bbls., c.l., works	100 lbs.	1.70 - —
l.c.l., zone 1, dlvd	100 lbs.	2.70 - —
2, dlvd	100 lbs.	2.85 - —
3, dlvd	100 lbs.	3.10 - —
4, dlvd	100 lbs.	3.50 - —

Soda sesquicarbonate l.c.l. price zones are same as those for soda ash.

Sesquisilicate, dms., c.l., works.	100 lbs.	3.05 - —
l.c.l., dlvd.	100 lbs.	4.30 - 4.45
Silicate, 40°, turbid, dms., c.l., works	100 lbs.	.80 - —
l.c.l., works	100 lbs.	1.05 - 1.20
tanks, works	ton.	13.00 - —
52°, turbid, dms., c.l., works,	100 lbs.	1.40 - —
l.c.l., works	100 lbs.	1.65 - 1.80
tanks, works	ton.	25.00 - —
Silicofluoride, bbls., c.l., works,	lb.	.06½- .07
l.c.l., works	lb.	.07 - .07½
Stannate, dms., works, frt. alld. E.	lb.	.32½- .36½
Stearate, bbls., works	lb.	.19 - .24
Sulphate, NF, dried, powd., bbls.	lb.	.07 - .07¼
tech., anhyd., bgs., c.l., works.	100 lbs.	1.70 - —
l.c.l., works	100 lbs.	1.95 - 2.20
cryst. (see Glauber's salt).		
USP, cryst., gran., bbls	lb.	.07 - .10
Sulphide, cryst., bbls., c.l., works	100 lbs.	2.40 - —
l.c.l., dlvd	100 lbs.	3.15 - —
solid, bbls., c.l., works	100 lbs.	3.15 - —
l.c.l., dlvd	100 lbs.	3.65 - 3.90
Sulphite, cryst., bgs., c.l., works	100 lbs.	2.10 - —
l.c.l., works	100 lbs.	2.35 - —
bbls., c.l., works	100 lbs.	2.30 - —
l.c.l., works	100 lbs.	2.55 - —
powd., bbls., c.l., works	100 lbs.	5.25 - —
l.c.l., works	100 lbs.	5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., dms	lb.	.28 - .33
powd., bbls	lb.	.30 - .35
Sulphocyanide, CP, dms	lb.	.55 - .65
Sulphohydrate, liquid, 88%, dms., c.l., works, 100% basis	lb.	.06 - —
l.c.l., same basis	lb.	.08 - —
Sulphohydrate, flake, 70-72%, dms., c.l.	lb.	.04½- —
l.c.l., works	lb.	.05 - —
liquid, 88%, tanks, basis 100%, works	lb.	.08¾- —
l.c.l., works	lb.	.05 - —
Sulphoxylate, formaldehyde, dms., c.l., works, frt. alld	lb.	.17½- —
Sulphoricinoleate, bbls	lb.	.12 - —
Thiocyanate (see Soda, sulphocyanide).		
Thiosulphate (see Soda hyposulphite).		
Tungstate,[1,8] tech., bgs	lb.	1.35 - 1.00
Soda-ammonia phosphate, bbls., works, frt. equald	lb.	.23 - —
Soda-cinchophen, bots., dms., works	lb.	3.75 - 3.85
Soda-formaldehyde sulphoxalate, stand. cont., 125-250 lbs	lb.	.19 - .22
Soda-sulphadiazin, USP, dms., works	lb.	10.50 -10.00
Soda-sulphamerazin, dms., works.	lb.	10.50 -10.00
Soda-sulphapyridin, powd., bots., dms., works	lb.	5.00 - 5.30
Soda-sulphathiazole, USP, dms., works	lb.	2.50 - 2.80
Solvent naphtha, dms., wks.	gal.	.27 - —
tanks, E. of Omaha, frt. alld.	gal.	.22 - —
Minnequa, Colo	gal.	.26 - —
high-flash, coaltar, dms., works.	gal.	.30 - —
tanks, frt. alld. E. of Omaha to 3c, per gal.	gal.	.25 - —
Sorbitol, com'l, dms., c.l., works.	lb.	.20¼- —
l.c.l., works	lb.	.20¾- —
Soybean meal,[7] 41%, bulk, c.l., Decatur	ton.	80.00 -90.00
Protein, alpha, bgs., 40,000 lbs., works	lb.	No prices
20,000 lbs., works	lb.	No prices
smaller lots, works	lb.	No prices
Spartеine sulphate, bots., ons.	oz.	2.95 - 3.25
Spearmint leaves, bls	lb.	.48 - .49
Spikenard root, bls	lb.	.50 - .55
Spruce extract, liq., reg., tanks, c.l., works	lb.	.01¾- .02
pwd., super, bgs., c.l., wks.	lb.	.05¼- —
Squaw vine, bls	lb.	.53 - .55

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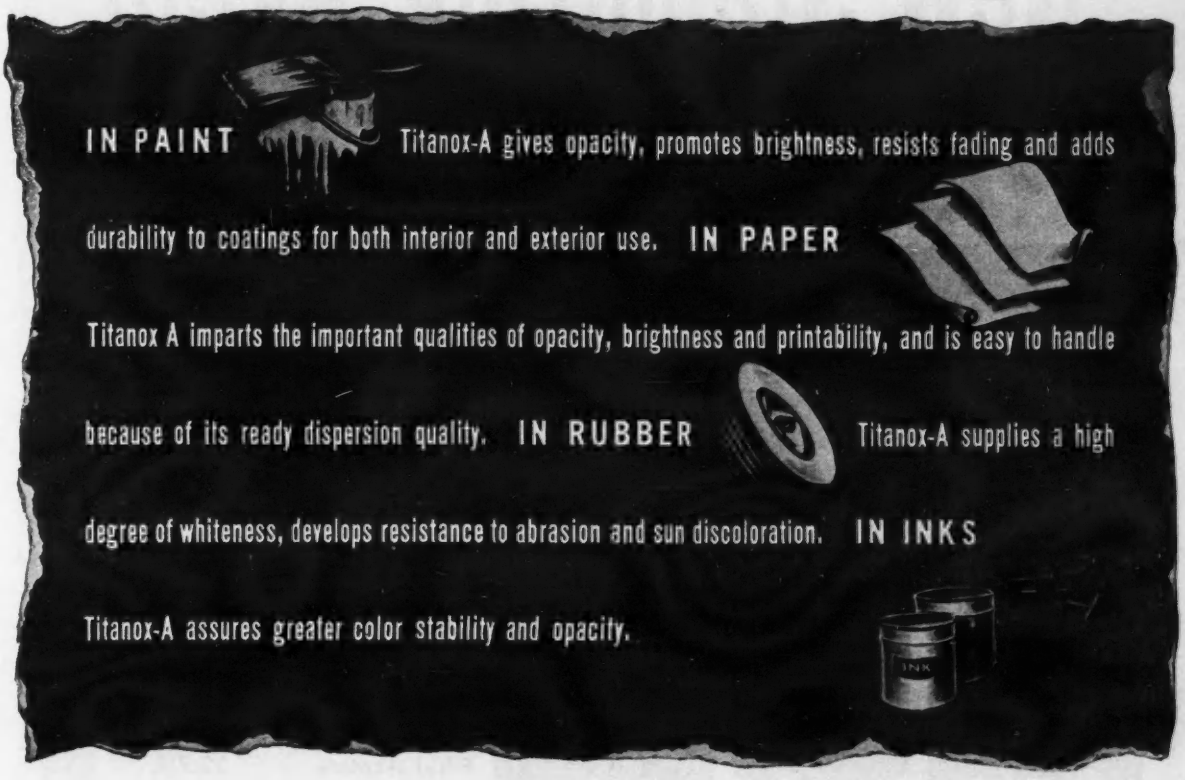
NEW ORLEANS — E. W. Osterloh
TORONTO & MONTREAL — Edwardian Agencies, Ltd.

Squill, red, fortified, powd., bbls., bxs.	lb.	1.60 - —
White, bls.	lb.	.10 - .12
powd., bbls., bxs.	lb.	.16 - .20
St. Ignatius beans, bgs.	lb.	No stocks
St. John's bread, edible, bls.	lb.	.10¾- .11½
Starch,[1] corn, pearl, bgs., c.l.	100 lbs.	5.121 - —
l.c.l.	100 lbs.	5.221 - —
Chicago, c.l.	100 lbs.	4.77 - —
powd., bgs., c.l.	100 lbs.	5.271 - —
l.c.l.	100 lbs.	5.371 - —
Chicago, c.l.	100 lbs.	4.87 - —
Cornstarch prices above are for paper bags; cotton bags are 20c. higher.		
Potato, bgs., c.l.	lb.	.0735- .0750
l.c.l.	lb.	.0810- .1825
Rice, bgs., c.l.	lb.	No stocks
Sweetpotato, bgs.	lb.	No stocks
Wheat, bgs.	lb.	.06½- .06¾
Starch iodide, bots.	lb.	1.87 - —
Staves acre seed, bgs.	lb.	.60 - .61
Stearin, oleo (see Oleostearin).		
Stillingia root, bls.	lb.	.45 - .50
Stoneroot, bls.	lb.	.07½- .08
Storax, cs.	lb.	1.00 - 1.10
Stramonium leaves, bgs.	lb.	.20 - .25
Seed, bgs.	lb.	.20 - .21
Streptomycin, hospitals	gram.	8.00 - —
wholesalers	gram.	6.40 - —
Strontium bromide, NF, cns., dms.	lb.	.53 - .55
Carbonate, 90%, bbls.	lb.	.14 - .16
98%, bbls.	lb.	.23 - .25
Chloride, tech., bbls.	lb.	.22 - .24
mesh 90%, bbls., works.	ton.	58.00 - —
Chromate, bbls., kgs., Phila.	lb.	.35 - .37
Iodide, bots.	lb.	3.06 - 3.15
jars, 25 lbs.	lb.	3.00 - —
Lactate, dms.	lb.	1.30 - 1.35
Nitrate, bbls., c.l., works.	lb.	.07¾- —
l.c.l., works.	lb.	.08¼- .08¾
Oxalate, bbls., works.	lb.	.38 - .40
Salicylate, NF, dms.	lb.	1.10 - 1.15
Sulphate, nat., air-floated, 325 mesh 90%, bbls., works.	ton.	58.00 - —
Strontium-calcium sulphide, phosphorescent, dms., works.	lb.	2.50 - 2.85
Strophanthin, bots.	oz.	30.00 -50.00
Strophanthus seed, Kombe, bgs.	lb.	2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs.	oz.	1.25 - —
Sulphate, USP, powd., cns., 100 ozs.	oz.	1.00 - —
Styrolyl acetate, bots.	lb.	2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works.	lb.	.45 - —
tech., bbls., l.c.l., works.	lb.	.40 - —
Sugar coloring (see Caramel coloring).		
Sugar of milk (see Milk sugar).		
Sulphadiazine, USP, dms., works.	lb.	9.00 - 9.10
Sulphaguanidin, dms., works.	lb.	4.50 - 4.60
Sulphamerazin, dms., works.	lb.	9.00 - 9.10
Sulphanilamide, USP, powd., bots., works.	lb.	1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.		
Sulphapyridin, powd., bots., tins, works.	lb.	5.00 - 5.30
Sulphathiazole, USP, powd., dms., works.	lb.	2.50 - 2.80
Sulphonethylmethane, kgs.	lb.	6.75 - 6.85
Sulphonmethane, kgs.	lb.	5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract.	long ton.	16.00 - —
vessels, Gulf ports, contract.	long ton.	17.50- —
flour, comm'l, 99½%, bgs., c.l., works.	100 lbs.	1.65 - —
l.c.l., works.	100 lbs.	2.00 - 2.11
precipitated, USP, bbls., kgs.	lb.	.18 - .36
refined, flour, extra fine, bgs., c.l., works.	100 lbs.	2.90 - —
l.c.l., works.	100 lbs.	3.25 - 3.40
heavy, bgs., c.l., works.	100 lbs.	2.60 - —
l.c.l., works.	100 lbs.	2.95 - 3.10
light, bgs., c.l., works.	100 lbs.	2.70 - —
l.c.l., works.	100 lbs.	3.05 - 3.20
flowers, USP, bgs., c.l., works.	100 lbs.	3.05 - —
l.c.l., works.	100 lbs.	3.40 - 3.55
Refined sulphur flowers in bbls., 35c. higher.		
rock, bbls., c.l., works.	100 lbs.	2.20 - —
l.c.l., works.	100 lbs.	2.55 - 2.70
roll, bbls., c.l., works.	100 lbs.	2.40 - —
l.c.l., works.	100 lbs.	2.75 - 2.90
rubbermakers', bgs., c.l., wks.	100 lbs.	1.35 - —
Chloride, 35-gal. dms., c.l., works.	lb.	.03 - .03½
l.c.l., works.	lb.	.04 - .04½
10-gal. dms., c.l., works.	lb.	.07 - .07½
l.c.l.	lb.	.08 - .08½
Dioxide, liquid, com'l, cyls., c.l., works.	lb.	.07 - —
l.c.l.	lb.	.08 - —
multi-unit cars, works.	lb.	.06 - —
tanks, works.	lb.	.04 - —
refrigeration, cyls., l.c.l., works.	lb.	.13 - .16
Iodide, bots., jars	lb.	3.90 - 4.11
Sumac extract, No. 1, bbls.	lb.	.10½- —
No. 2, bbls.	lb.	.09 - —
crystals, bbls.	lb.	.40 - —
stainless, bbls.	lb.	.11 - .13½
Superphosphate,[1] pulverized, run-of-pile under 22% a.p.a. bulk, production points, Balto.	unit-ton.	.70 - —
Florida	unit-ton.	.56 - .59
others	unit-ton.	.57 - .89
Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 88½c., per unit-ton plus frt. charges from Anaconda, Mont., in excess of $8.06 per ton; guaranteed 16, 19 or 20% a.p.a., ½c. per unit-ton higher.		
triple, 48% or more, a.p.a., bulk, producing points, Florida.	unit-ton.	.68 - —
South Carolina.	unit-ton.	.75 - —
Tennessee	unit-ton.	.80 - —
Other States and D.C., 62c. per unit-ton plus frt. charge for 48% from E. Tampa, Fla.		
Superphosphate, gran., 2c. per unit-ton higher than pulverized.		
Sweet basil, bls.	lb.	.90 - 1.00

T

Talc, dom., ordinary, grd., bgs., c.l., works.	ton.	14.50 -24.50
l.c.l., works.	ton.	16.50 -30.00
Calif., bgs., c.l., wks.	ton.	22.00 -30.00
Pennsylvania, bgs., c.l., works.	ton.	11.00 -13.50
l.c.l., works.	ton.	12.00 -14.50
Vermont, bgs., c.l., works.	ton.	14.00 - —
l.c.l., works.	ton.	17.50 - —
fibrous, grd., off-color, New York, bgs., c.l., works.	ton.	15.50 - —
fine, New York, 325 mesh, 93-94%, bgs., c.l., works.	ton.	17.50 - —
98 - 99.5%, bgs., c.l., works.	ton.	No prices.
99.85-99.95% bgs., c.l., works.	ton.	No prices.
Imp., Canada, bgs., c.l.	ton.	35.00 -44.50
Tallow,[1,7] edible, tanks	lb.	.09¾- —
inedible, extra, loose	lb.	.08¾- —
special, loose	lb.	.08½- —
sulphonated 50% (42% fat), dms., c.l.	lb.	.07 - .07½
(70% fat), dms., c.l.	lb.	.10 - .10¼
Tallow, sulphonated, l.c.l., ½c. higher.		
Tamarind, bbls.	lb.	.12¾- .12¾
Tankage, animal, feed grade, 9-11% ammon., bulk, unit-ton.		10.00 - —
Chicago	unit-ton.	10.00 - —
fert. grade, 9% ammon., 10% b.p.l., bulk.	unit-ton.	10.00 - —
10-11% ammon., 15% b.p.l., bulk, Chicago.	unit-ton.	10.00 - —
Tapioca flour,[8] bgs.	lb.	.12½- .13
Java, bgs.	lb.	No stocks
Tar acid oil, 15-18%, dms., c.l., works.	gal.	.27½- .30½
l.c.l., works.	gal.	.29½- .32½
25%, dms., c.l., works.	gal.	.31½- .35½
l.c.l., works.	gal.	.33½- .37½
Tar, pine (see Pinetar).		
Tara[1] pods, c.l., ex dock U. S. ports.	long ton.	87.25 - —
powd., c.l., same basis.	long ton.	125.00 - —
Tarragon herb, bgs.	lb.	.60 - .65
Leaves, bgs.	lb.	1.20 - 1.25
Tartar emetic, tech., gran. or powd., bbls., kgs.	lb.	.44 - —
dms.	lb.	.44½- .47
Tartar emetic, USP, powd., bbls., dms., kgs.	lb.	.49 - .52
Terpin hydrate, com'l, bbls., c.l., lb.		.24½- —
lb.		.25 - .25½
USP, cryst., bbls., dms.	lb.	.70 - .75
powd., bbls., dms.	lb.	.75 - .80
Terpineol, Alpha (see A).		
com'l, dms., c.l., South.	lb.	.13½- —
l.c.l., South	lb.	.14 - —
tanks, South	lb.	.13 - —
pure, dms.	lb.	.34 - .50
extra, dms.	lb.	.37 - —
Terpinglycol ether, dms. (extra), c.l., works.	lb.	.19½- —
l.c.l., works.	lb.	.20 - —
tanks, works.	lb.	.19 - —
Terpinyl acetate, extra, cns., dms.	lb.	.80 - .97
prime, cns., dms.	lb.	.62 - .70
Terra alba (see Gypsum).		
Tetrachlorocthane, dms., works,	lb.	.08 - .08½
Tetrachloroethylene, NF VI, 55-gal. dms., works.	lb.	.20 - 21½
smaller dms., works.	lb.	.23½- .25½
tech. (see Perchloroethylene).		
Tetraethyl orthosilicate, dms., works.	lb.	.65 - —
Tetralin, dms.	lb.	.19 - —
Tetrasodium pyrophosphate (see Soda pyrophosphate).		
Thallium sulphate, 90%, bots., works.	lb.	17.50 - —
Theobromine, dms., 25-lb. lots.	lb.	3.75 - —
smaller lots	lb.	3.95 - 4.10
Thiamine hydrochloride, dms., 100 grams or more.	kilo.	160.00- —
Thiocarbanilide, dms.	lb.	.24 - —
Thiouracil, dms., works.	lb.	5.50 - 5.60
Thiourea, CP, dms.	lb.	.55 - .56
Thorium nitrate, cs., works.	lb.	2.60 - —
Thyme, French, bgs.	lb.	.17 - .17½
futures, bgs.	lb.	.16 - .16½
Spanish, bls.	lb.	.13 - .13½
Thymol, cns.	lb.	2.40 - 2.75
Iodide, dms.	lb.	3.40 - 3.60
Timbo root (see Cube root).		
Tin chloride,[6] anhydrous	lb.	No stocks.
crystals,[6] bgs., bbls.	lb.	No stocks.
Metal,[1,4]	lb.	.52 - —
Bolivian	lb.	.63½- —
Straits	lb.	No stocks.
Oxide,[1,6] bbls.	lb.	.54 - .55
Tetrachloride,[6] anhyd., dms., works.	lb.	.31 - .33
Titanium dioxide,[1,4] chalk resistant, bgs., c.l., dlvd.	lb.	.15 - —
l.c.l., dlvd.	lb.	.15¼- .15¾
nonchalking,[1,4] bgs., c.l., dlvd. E.	lb.	.16½- —
l.c.l., dlvd.	lb.	.16¾- .17¼
plain, bgs., c.l., dlvd.	lb.	.14½- —
l.c.l., dlvd.	lb.	.14¾- .15¼
Hydride, cns., works.	lb.	7.00 - 8.00
Pigment, barium base,[3,4] bgs., c.l., dlvd.	lb.	.05¾- —
l.c.l., dlvd.	lb.	.06 - —
Calcium base,[1,4] bgs., c.l., dlvd.	lb.	.05¼- —
l.c.l., dlvd.	lb.	.05¾- —
Calcium-rutile base,[1,4] bgs., c.l., dlvd.	lb.	.05½- —
l.c.l., dlvd.	lb.	.05¾- —
Magnesium base,[3,4] dlvd.	lb.	No prices
l.c.l., dlvd.	lb.	No prices
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse, ¼c. higher.		
Tetrachloride, CP, 55-gal. dms., works.	lb.	.57 - —
smaller pkgs., works.	lb.	.65 - 1.22
technical, 55-gal. dms., works.	lb.	.32 - —
smaller pkgs., works.	lb.	.40 - 1.00
Tolu balsam, cns.	lb.	4.25 Nom.
Toluene (see Toluol).		
Toluidin base, distilled, kgs.	lb.	.96 - —
Toluol (toluene), 2°, indust., ret. dms., works.	gal.	.27 - —
tanks, E. of Omaha, frt. alld.	gal.	.22 - —
West Minnequa, Colo.	gal.	.22 - —
1°, nitration, ret. dms., works.	gal.	.27 - —
tanks, E. of Omaha, frt. alld.	gal.	.22 - —
West Minnequa, Colo.	gal.	.22 - —
Tonga, 50% bark and vine, bbls.	lb.	.90 - .91
Tonka beans, Angostura, cks.	lb.	1.70 - 1.80
Brazilian, Surinam, cs.	lb.	.85 - .90

TITANOX... *the brightest name in titanium pigments*


IN PAINT
Titanox-A gives opacity, promotes brightness, resists fading and adds durability to coatings for both interior and exterior use.
IN PAPER
Titanox A imparts the important qualities of opacity, brightness and printability, and is easy to handle because of its ready dispersion quality.
IN RUBBER
Titanox-A supplies a high degree of whiteness, develops resistance to abrasion and sun discoloration.
IN INKS
Titanox-A assures greater color stability and opacity.
INK

TITANOX-A
...another First!

In 1925, Titanox-A (Titanium Dioxide) was developed at Niagara Falls, New York, as a result of research by the staff of The Titanium Pigment Company, Inc. This was the first pure titanium dioxide pigment commercially produced in the United States...another "TITANIUM PIGMENT FIRST".

This new product was superior to any other Titanium pigment available up until that time and even approached present-day Titanox-A in opacity, whiteness and brightness. These improved characteristics make versatile Titanox-A the preferred pigment for a great variety of uses.

While keeping quality uniformly high, the makers of Titanox pigments are also exerting every effort toward increasing output to meet a tremendously expanded industrial need.

TITANOX TITANIUM PIGMENT CORPORATION
SOLE SALES AGENT

111 Broadway, New York 6, N. Y.
104 South Michigan Ave., Chicago 3, Ill.
350 Townsend St., San Francisco 7, Cal.
2472 Enterprise St., Los Angeles 21, Cal.

Totaquine,[1,6] USP XII, 100-ozs. lots..oz. .52 - —
Triacetin, dms., works.....lb. .26 - —
Triamylamine, dms., c.l., works. lb. .98 - —
l.c.l. .....lb. 1.01 - —
Tributyl citrate, dms.....lb. .29 - .31
smaller pkgs.....lb. .34 - .40
Phosphate, cns., l.c.l., dlvd..lb. .53 - .55
dms., l.c.l., dlvd.....lb. .49 - —
Tributylamine, dms., c.l., works. lb. .78 - —
l.c.l., works.....lb. .81 - —
Trichlorobenzene, dms., c.l., frt. alld..lb. .06 - —
l.c.l., frt. alld.....lb. .06½- —
tanks, frt. alld.....lb. .07½- —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works.....lb. .17 - —
Trichloroethylene, dms., c.l., Zone 1, works, frt. alld..lb. .06 - —
Zone 2, frt. alld.....lb. .06½- —
Zone 3, frt. alld.....lb. .09 - —
Zone 4, ex whse.....lb. .09 - —

Trichloroethylene, l.c.l. prices, ½c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, tech., cns., works..lb. .28 - .31½
dms., c.l., dlvd.....lb. .25 - —
l.c.l., dlvd.....lb. .25½- —
tanks, dlvd.....lb. .24 - —
Triethanolamine, dms., c.l., frt. alld. in E..lb. .19½- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .18½- —
Triethyl phosphate, cns.....lb. .40 - —
Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%...lb. .36 - —
tanks, works, basis 100%....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. in E..lb. .18½- —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- —
Trimethylamine, anhydrous, cyl., works, frt. alld. E. of Miss., 100% basis..lb. .35 - —
solution, dms., c.l., frt. alld. E. of Miss., 100% basis..lb. .35 - —
Trimethylolpropane, bbls.....lb. .65 - —
Triphenyl phosphate, bbls., c.l., frt. alld..lb. .31 - —
l.c.l., same basis.....lb. .32 - —
Tripoli, air-floated, bgs., c.l., works..ton.21.50 - —
double-grd., bgs., c.l., works.. ton.17.50 - —
once-grd., bgs., c.l., works.ton.16.00 - —
Trisodium phosphate (see Soda phosphate tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 99-99.7%, dms., works..lb. 2.00 - 5.40
Oxide, kgs.....lb. No prices
Turmeric root, Alleppey, bls...lb. .19½- .20
Haitian, bls.....lb. .14½- .15
Jamaica, futures, bls.....lb. .15½- .16
Madras, bgs.....lb. .16¼- .16¾
Turpentine, gum, ret. dms., c.l. gal. 1.16 - —
l.c.l. .....gal. 1.16 - —
tanks, Savannah.....gal. 1.11 - —
Wood, d.d., dms., East....gal. .86 - —
tanks, East.....gal. .68 - —
steam-dist., ret. dms., East. gal. .83 - —
tanks, East.....gal. No prices
Sulphate, ret. dms.....gal. .80 - .85

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium,[6] oxide, black, bgs...lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 46% N., bgs., c.l., works or ship. pts..ton.68.00 - —
l.c.l., ship. pts.....ton.70.50 -80.00
fertilizer comp., 42% N., bulk, c.l., works or Atlantic or Gulf ports..ton.57.40 - —
fixed ammonia content, usual Atlantic and Gulf ports, NH_3..ton.116.80 - —
imports, pure, cs.....lb. .12 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.59.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va., NH_3, ton.112.80 - —

C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.

Urunday, extract, 63% tannin, ex dock, U.S. ports..lb. .05625- .05675
Uva ursi leaves, bls.....lb. .16 - .19

V

Valerian root, Belgian, NF, bls. lb. .58 - .77
Indian, bls. .....lb. .42 - .52
Valonia, beards, bgs, ex dock.. ton.75.00 - —
Cups, bgs., ex dock.....ton.60.00 - —
Extract, powder, bgs., ex dock, lb. .12½- —
Vanadium pentoxide, CP, bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins..lb. 8.00 - 8.75
Mexican, cuts, tins.....lb. 9.50 -10.00
whole, tins.....lb.10.50 -11.00
Tahiti, tins.....lb. 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs. or more..lb. 4.50 - —
smaller lots, tins.....lb. 4.55 - 4.65
ex guaiacol, tins, 25 lbs. or more..lb. 2.36 - —
smaller lots, tins.....lb. 2.40 - 2.50
ex lignin, tins, 25 lbs. or more. lb. 2.35 - —
smaller lots, tins.....lb. 2.40 - 2.50
Venice turpentine, artif., cns..lb. .24 - .26
Verdigris, bbls., bgs.....lb. .22 - .23
Vinyl acetate, cbys., works....lb. .25 - —
dms., c.l., works.....lb. .15 - —
l.c.l., works.....lb. .16 - —
smaller pkgs., l.c.l., works.lb. .25 - —
Ether, bots., 75 c.c., less 20% and 20%..bot. 1.50 - —
50 c.c., same basis.....bot. 1.05 - —
25 c.c., same basis.....bot. .65 - —
Trichloride (see Trichloroethane).
Vinylpyridin, ret. dms., works.lb. 1.50 - —
Vitamin A (see Oils, codliver, halibut-liver).
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
Viosterol (irradiated ergosterol), bots., mil., units. .10 - .12
in corn oil (see Calciferol).
Vitamin C (see Acid, ascorbic).
D (see Oils, codliver, halibut-liver, viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol).
G (see Riboflavin).
P-P (see Acid, nicotinic, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls.....lb. 1.25 Nom.
Wattle bark, merchantable, bgs., f.a.s..ton.55.00 - —
fair average, bgs., f.a.s.. ton.57.00 - —
extract,[1] liquid, 25% tannin, bbls., works..lb. .05¾- .06¼
tanks, works.....lb. .05¼- .05¾
solid, E. Afr., 61% tannin, ex dock..lb. .06005- .06345
S. Afr., 62% tannin, ex dock, lb. .0622- .0647

Wattle extract prices based on $12 freight and $1.00 insurance per long ton.

Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs. .....lb. No stocks
Bees, bleached, USP, white, bricks, cakes, cs..lb. .68 - .70
slabs, bgs.....lb. .65 - .68
crude, African, bgs.....lb. .54 - .55
Western hemisphere, bgs.lb. .58 - .60
refined, yellow, bricks, bgs., lb. .60 - .62
slabs, cs.....lb. .59 - .61
Candelilla, crude, bgs.....lb. .77 - .78
refined, bgs.....lb. .80 - .82

Powdered, candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, No. 3, bgs., ton lots..lb. 1.50 - 1.55
North Country, No. 2, bgs., ton lots..lb. 1.65 - 1.70
No. 3, bgs., ton lots.....lb. 1.60 - 1.65
refined, bgs., ton lots.....lb. 1.70 - 1.75
yellow, No. 1, bgs., ton lots, lb. 1.95 - 2.00
No. 2, bgs., ton lots.....lb. 1.93 - 1.98

Powdered carnauba prices, same differentials as powdered candelilla.

Ceresin, dom., 132°-136° m.p., bgs..lb. .12½- .13½
138°-140° m.p., bgs.....lb. .15 - —
158°-162° m.p., bgs.....lb. .19 - .20
Japan, bgs. .....lb. No stocks
Microcrystalline, 170°-175° m.p., A.S.T.M., amber, ctns., 30 tons yearly contract, group 3, works..lb. .14¼- —
smaller lots, same basis. lb. .14½- .15½
black, ctns., 30 tons, same basis..lb. .12¾- —
smaller lots, same basis..lb. .13 - .14
white, ctns. 30 tons, same basis..lb. .24¾- —
smaller lots, same basis.. lb. .25 - .26
190°-195° m.p., A.S.T.M., amber, ctns., 30 tons, same basis..lb. .16¼- —
smaller lots, same basis. lb. .16½- .17½
black, ctns., 30 tons, same basis..lb. .14¾- —
smaller ctns., same basis. lb. .15 - .16
white, ctns., 30 tons, same basis..lb. .28¾- —
smaller lots, same basis. lb. .29 - .30
Montan, bgs.....lb. .53 - .55
Ouricury, crude, bgs., ton lots, lb. .90 - —
refined, bgs., ton lots.....lb. .98 - 1.00

Powdered ouricury prices same as powdered candelilla.

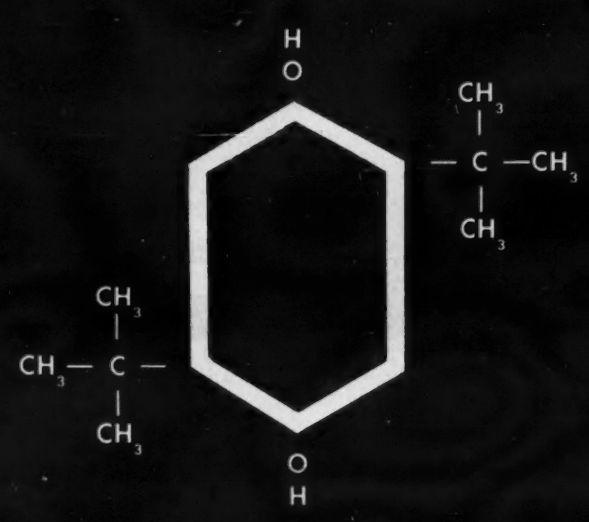
Ozokerite, dom., 180-190 F., c.l. lb. .36 - —
182-184 F., bgs., c.l.....lb. .31 - —
182-183 F., bgs., c.l.....lb. .31 - —
Spermacetti, blocks, cs.....lb. .28 - .31
cakes, cs.....lb. .29 - .32
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs. or more..lb. 2.50 - —
White pine bark, rossed, bls..lb. .23 - .24
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, N.E., works..ton. 6.50 - —
Penna. works .....ton. 9.00 - —
smaller lots, N.E., works. ton. 8.50 - —
wet-grd., air-floated, 360 mesh, 99½%, bgs., c.l..ton.16.00 -27.50
200 mesh, 99¾%, bgs., c.l. ton. No prices
90%, bgs., c.l.....ton. No prices
water-floated, extra gilders, bgs., c.l..ton.14.50 -23.00
gilders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l..ton.22.00 - —
surface treated, bgs., c.l., Ohio, works..ton.27.50 - —
Paris white, bgs., c.l.....ton.25.00 -31.00
l.c.l. .....ton.25.00 -29.00
precipitated, bgs., c.l.....ton.14.00 -15.00
l.c.l. .....ton.18.00 -20.00

New Stabilizing Agent

for mineral oil, vegetable oils, greases, paints, cosmetics, and various resin monomers

2,5-DITERTIARY BUTYL HYDROQUINONE

White Powder: M. P. 210-212°C



SOLUBILITY AT 30°C	
SOLVENT	SOLUBILITY
Water	0%
Acetone	28.3%
Ethyl Acetate	32.7%
Alcohol	26.4%
Benzene	1.4%

Available in 50- and 100-pound drums.

RESIN manufacturers have long searched for a monomer stabilizer which is effective at storage temperatures but which is easily deactivated when polymerization is desired. 2,5-Ditertiary Butyl Hydroquinone offers an answer to this problem.

In the presence of peroxides or oxygen at polymerization temperatures, it is converted to 2,5-Ditertiary Butyl Quinone. For vegetable oils, the latter product is a polymerization catalyst. For styrene and other vinyls, the Quinone has no appreciable depressing effect on the polymerization rate.

For economical removal of stabilizer before polymerization, try 2,5-Ditertiary Butyl Hydroquinone.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Company)
KINGSPORT, TENNESSEE

Wild cherry bark, thick, bls.	lb.	.06 - .07
thin, natural, bgs.	lb.	.18 - .20
rossed, green, bls.	lb.	.20 - .21
Wild indigo root, bls.	lb.	.22 - .25
Witch-hazel leaves, bls.	lb.	.20 - .22
Witherite (see Barium carbonate, natural).		
Woodflour, 40 mesh, bulk, c.l., N. Tonawanda, N. Y.	ton.	No prices
60 mesh, same basis.	ton.	No prices
80 mesh, same basis.	ton.	No prices
100 mesh, same basis.	ton.	No prices
Woodflour, in bags, 25c. each extra, returnable.		
Wormseed, American, bgs.	lb.	.20 - .27
Levant, bgs.	lb.	4.25 - 4.30
Wormwood, bls.	lb.	.59 - .60

X

Xanthorrhiza, bls.	lb.	.28 - .30
Xylidin, mixed, dms.	lb.	.35 - .36
Xylene (see Xylol).		
Xylol (xylene), indust., ret. dms., works	gal.	.27 - —
tanks, E. of Omaha, frt. alld.	gal.	.22 - —
West Minnequa, Colo.	gal.	.22 - —
10°, ret. dms., works	gal.	.30 - —
tanks, E. of Omaha, frt. alld.	gal.	.25 - —
5°, ret. dms., works	gal.	.31 - —
tanks, E. of Omaha, frt. alld.	gal.	.32 - —
3°, ret. dms., works	gal.	.42 - —
tanks, E. of Omaha, frt. alld.	gal.	.37 - —

Y

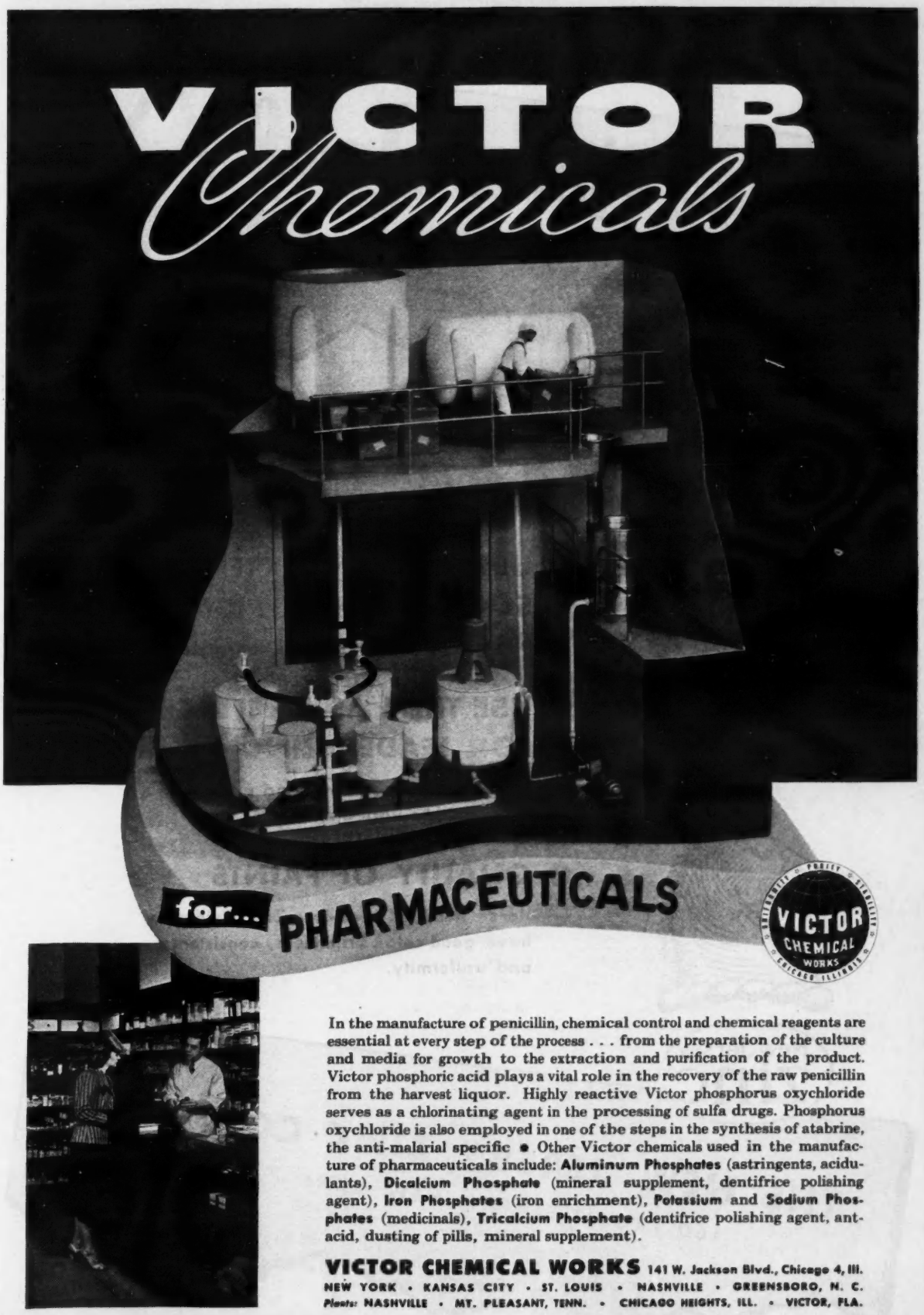
Yara yara, cryst., bots., cns.	lb.	1.75 - 1.90
Yeast, brewer's dry, 50 B units, dms.	lb.	.35 - —
90 B units, dms.	lb.	.45 - —
200 B units, dms.	lb.	.50 - —
300 B units, dms.	lb.	.60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul.	lb.	.32 - —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.		
Benzidin, bbls., dlvd.	lb.	1.45 - —
Cadmium, lithopone, all shades, bbls., frt. alld. E. of Rockies.	lb.	.55 - .60
Los Angeles and San Francisco, ex whse., 1c. per lb. higher.		
Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss. R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts.	lb.	.18¾- —
Chrome, CP, bbls., dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¾c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.		
Dutch, pink, bbls.	lb.	.09 - .11
Hansa, bbls., same basis as chrome.	lb.	1.48 - —
primrose, bbls., same basis.	lb.	1.90 - —
Iron oxide, nat., bbls., c.l., Bethlehem, Easton, Pa.	lb.	.04¼- —
l.c.l., same basis.	lb.	.05 - —
synthetic, bbls., c.l., works.	lb.	.0685- —
l.c.l., works.	lb.	.0710- —
Mercury oxide, bbls., 1,000 lbs.	lb.	2.43 - —
smaller lots.	lb.	2.45 - —
Ocher, American, golden, bbls., works.	lb.	.04½- .06¼
yellow, bbls., works.	lb.	.02 - .02¼
French type, bbls., c.l.	lb.	.0645- —
l.c.l.	lb.	.0885- —
Persian orange (see O).		
Zinc, bbls., same basis as chrome.	lb.	.17½- —
Yellow, zinc, Navy spec. type, bbls., contract.	lb.	.16 - —
Yellow dock root, bls.	lb.	.33 - .40
Yellow xanthorrhiza (see Xanthorrhiza).		
Yerba santa leaves, bls.	lb.	.30 - .32
Yohimbine hydrochloride, vis.	oz.	3.25 - 4.00

Z

Zein, bgs., 1,000 lbs., works.	lb.	.25 - —
smaller lots, bgs.	lb.	.30 - —
Zinc acetate, tech., bbls., dlvd.	lb.	.18 - —
USP, bbls.	lb.	.26 - .27
kgs.	lb.	.29 - —
Arsenite,[1] bgs., c.l., frt. alld. E. of Rockies.	lb.	.11¾- .12¼
l.c.l., same basis.	lb.	.12¾- .13½
Borate, bgs., c.l.	lb.	.12 - —
Carbonate, tech., rubber-makers' grade, bbls., works.	lb.	.09¾- .10¾
USP, precip., powd., bbls.	lb.	.35 - —
dms.	lb.	.40 - —
kgs.	lb.	.37 - —
Chloride, tech., fused, dms., c.l., works.	100 lbs.	5.00 - —
l.c.l., works.	100 lbs.	5.35 - —
gran., dms., c.l., works.	100 lbs.	5.75 - —
l.c.l., works.	100 lbs.	6.50 - —
solution, 50%, dms., c.l., works.	lb.	.0315- —
l.c.l., works.	lb.	.04¼- .04½
tanks, works.	lb.	.0250- —
USP, dms.	lb.	.30 - .31
jars	lb.	.35 - .36
Chromate (see Yellow, zinc).		
Cyanide, kgs., works.	lb.	.33 - .37
Dust,[6] bbls., c.l., dlvd.	lb.	.1035- —
l.c.l., works	lb.	.1135- —
Fluoride, bbls., works.	lb.	.18 - .19
Hydrosulphite, dms., works.	lb.	.16 - —
Iodide, NF, bots.	lb.	4.68 - 4.75
jars	lb.	4.40 - —
Laurate, bbls.	lb.	.32 - .38
Metal[1] (quotations in Protective Coatings market).		
Naphthenates, 8%-10% Zn, dms.,	lb.	.17¾- .21½
Oxide, pigment, dom., acicular, bgs., c.l., dlvd.	lb.	.06 - —
l.c.l., dlvd.	lb.	.06¼- —
American process, com'l, lead-free, bgs., c.l., dlvd.	lb.	.06 - —
l.c.l., dlvd.	lb.	.06¼- —
leaded, 5%, bgs., c.l., dlvd.	lb.	.06 - —
l.c.l., dlvd.	lb.	.06¼- —
35% or more, bgs., c.l., dlvd.	lb.	.06 - —
l.c.l., dlvd.	lb.	.06¼- —
50%, bgs., c.l., dlvd.	lb.	.06 - —
l.c.l.	lb.	.06¼- —
Zinc oxide, French process, com'l, lead-free, bgs., c.l., dlvd.	lb.	No prices
l.c.l., dlvd.	lb.	No prices
green seal, bgs., c.l., dlvd.	lb.	.09¾- —
l.c.l., dlvd.	lb.	.10 - —
white seal, bgs., c.l., dlvd.	lb.	.10¼- —
l.c.l., dlvd.	lb.	.10½- —
red seal, bgs., c.l., dlvd.	lb.	.09¼- —
l.c.l.	lb.	.09¼- —
USP, ctns., c.l.	lb.	.11¼- —
l.c.l.	lb.	.11½- —
Zinc oxide Pac. Coast prices ½c. higher; bbl. prices ½c. higher than bgs.		
Resinate, fused, 1% Zn, lump, precipitated, 8.40% to 9% Zn, powd., dms.	lb.	.13 - —
Silicofluoride, bbls.	lb.	.15 - .16
Stearate, tech., ctns., 2,000 lbs. to c.l.	lb.	.33 - —
smaller lots, same basis. USP (same prices as tech.).	lb.	.34½- —
Sulphate, cryst., bgs., c.l., works, frt. alld.	100 lbs.	3.40 - —
l.c.l., same basis.	100 lbs.	4.15 - —
flake, bgs., c.l., same basis.	100 lbs.	3.90 - —
l.c.l., same basis.	100 lbs.	4.55 - —
powd., bgs., c.l., same basis.	100 lbs.	5.35 - —
l.c.l., same basis.	100 lbs.	6.10 - —
Zinc sulphate, in bbls., 25c. higher.		
Sulphide,[1] pure, bgs., c.l., dlvd.	lb.	.0840- —
l.c.l., dlvd.	lb.	.0905- —
Barium pigment,[1] bgs., c.l., dlvd.	lb.	.0575- —
l.c.l., dlvd.	lb.	.06 - —
dlvd.	lb.	.0575- —
l.c.l., dlvd.	lb.	.0600- —
Zinc sulphide, fluorescent pigment,[1] works, frt. alld.	lb.	1.00 - 3.00
Magnesium pigment,[1] bgs., c.l., dlvd.	lb.	.0590- —
l.c.l., dlvd.	lb.	.0615- —
Zinc sulphide and pigments, Pac. coast prices ¼c. higher; bbl. prices ¼c. higher than bgs.		
Sulphocarbolate, NF, gran., bbls., dms.	lb.	.26 - .30
Sulphoxylate formaldehyde, basic, dms., works, frt. alld.	lb.	.17 - —
normal, dms., works, frt. alld.	lb.	.35 - —
Tallate, 5% Zn, dms.	lb.	.09¾- —
Yellow (see Yellow, zinc).		
Zinc-ammonia chloride, dms., c.l., works.	100 lbs.	5.65 - —
l.c.l., works.	100 lbs.	6.70 - —
Zinc-cadmium sulphide, fluorescent, ctns., works, frt. alld.	lb.	2.00 - 2.80
Zinc-iron oxide pigment, bgs., c.l., dlvd.	lb.	.09¾- —
l.c.l., dlvd. E. of Rockies.	lb.	.07 - —
Pac. cst.	lb.	.07¼- —
ex whse., Pac. cst.	lb.	.07¾- —
Zirconium acetate, solut., bbls., works.	lb.	.25½- —
Hydride, ctns., works.	lb.	7.00 - 8.00
Nitrate, bgs., works.	lb.	3.00 - 4.00
Oxide, 98%, grd., bbls., c.l., works.	lb.	.22½- —
l.c.l.	lb.	.22¾- —
white, 96½%-99%, grd., kgs., works.	lb.	.30 - —
milled, electric, fused, 2,000-9,999 lbs., works.	lb.	.46 - —
500 lbs. and less, same basis.	lb.	.46½- .49
Zirconium oxychloride, cryst., bbls., 5 tons, works.	lb.	.29¼- —
Sulphate, basic, cake, bbls., c.l., works.	lb.	.18 - —
l.c.l., works.	lb.	.18½- .20
smaller lots, works.	lb.	.30 - .31½

Synthetic Resins and other Branded Paint Materials (Manufacturers' List Prices)

Abalyn (see methyl abetate in Current Market Quotations).		
Acryloid, acrylic ester type, A-10 (30% in cellosolve acetate), bbls., c.l.	lb.	.36 - —
10 dms.—1 to 9 dms.	lb.	.37 - .38
B-7 (20% in ethylene dichloride), bbls., c.l.	lb.	.28 - —
10 dms.—1 to 9 dms.	lb.	.29 - .30
B-72, B-73 (40% in toluol), bbls., c.l.	lb.	.42 - —
10 dms.—1 to 9 dms.	lb.	.43 - .44
C-10 (20% in ethyl acetate), bbls., c.l.	lb.	.28 - —
10 dms.—1 to 9 dms.	lb.	.29 - .30
F-10 (40% in mineral thinner and No. 3 solvent), bbls., c.l.	lb.	.42 - —
10 dms.—1 to 9 dms.	lb.	.43 - .44



In the manufacture of penicillin, chemical control and chemical reagents are essential at every step of the process . . . from the preparation of the culture and media for growth to the extraction and purification of the product. Victor phosphoric acid plays a vital role in the recovery of the raw penicillin from the harvest liquor. Highly reactive Victor phosphorus oxychloride serves as a chlorinating agent in the processing of sulfa drugs. Phosphorus oxychloride is also employed in one of the steps in the synthesis of atabrine, the anti-malarial specific • Other Victor chemicals used in the manufacture of pharmaceuticals include: **Aluminum Phosphates** (astringents, acidulants), **Dicalcium Phosphate** (mineral supplement, dentifrice polishing agent), **Iron Phosphates** (iron enrichment), **Potassium** and **Sodium Phosphates** (medicinals), **Tricalcium Phosphate** (dentifrice polishing agent, antacid, dusting of pills, mineral supplement).

VICTOR CHEMICAL WORKS 141 W. Jackson Blvd., Chicago 4, Ill.
NEW YORK • KANSAS CITY • ST. LOUIS • NASHVILLE • GREENSBORO, N. C.
Plants: NASHVILLE • MT. PLEASANT, TENN. • CHICAGO HEIGHTS, ILL. • VICTOR, FLA.

Acrysol, C-9, dms. (40% in water), 10 dms., 1-9 dm. lots..lb. .38 - .38¾
ER, MR, dms. (50% in water), c.l..lb. .42 - —
10 dms., 1-9-dm. lots....lb. .43 - .44
WA-5, dms., (40% in water), 10 dms., 1-9-dm. lots..lb. .36¾- .37¼

Acryloid and Acrysol prices are f.o.b. manufacturer's plant, with minimum transportation charges allowed to destination on shipments of one barrel or more in district 1, comprising any point in the United States except in the States of Arizona, California, Colorado, Idaho, Montana, New Mexico, Nevada, Oregon, Texas, Utah, Washington and Wyoming.

Amberlac, 80-X, bbls., c.l. ..lb. .19 - —
l.c.l. .....lb. .19½- —
80-MT, bbls., c.l. .....lb. .16½- —
l.c.l. .....lb. .17 - —
81-X, bbls., c.l. .....lb. .18½- —
l.c.l. .....lb. .19 - —

Amberol, phenol formaldehyde type, F-7, light, bbls., c.l..lb. .19½- —
l.c.l. .....lb. .20 - —
extra light, bbls., c.l...lb. .19¾- —
l.c.l. .....lb. .20¼- —
dark, bbls., c.l. .....lb. .19¼- —
l.c.l. .....lb. .19¾- —

F-71, bbls., c.l. .....lb. .20 - —
l.c.l. .....lb. .20½- —
F-77, bbls., c.l. .....lb. .21 - —
l.c.l. .....lb. .21½- —
K-12-A, bbls., c.l. .....lb. .19 - —
l.c.l. .....lb. .19½- —
B/S-I, light, bbls., c.l.....lb. .18¼- —
l.c.l. .....lb. .18¾- —
extra light, bbls., c.l..lb. .18½- —
l.c.l. .....lb. .19 - —
M-82, bbls., c.l. .....lb. .17½- —
l.c.l. .....lb. .18 - —
M-88, bbls., c.l. .....lb. .20 - —
l.c.l. .....lb. .20¼- —
M-98, bbls., c.l. .....lb. .21½- —
l.c.l. .....lb. .22 - —

Amberol, phenol formaldehyde type M-226, bbls., c.l..lb. .23½- —
l.c.l. .....lb. .24 - —
ST-137, bbls., c.l. .....lb. .33 - —
l.c.l. .....lb. .33½- —
137 X, bbls., c.l. .....lb. .32 - —
maleic type, 800, extra light bbls., c.l..lb. .18½- —
l.c.l. .....lb. .19 - —
750, bbls., c.l. .....lb. .32 - —
l.c.l. .....lb. .32½- —
801, light, bbls., c.l....lb. .19¾- —
l.c.l. .....lb. .20¼- —
801-P, bbls., c.l. .....lb. .19 - —
l.c.l. .....lb. .19½- —
806-P, bbls., c.l. .....lb. .20 - —
l.c.l. .....lb. .20½- —
808, bbls., c.l. .....lb. .20 - —
l.c.l. .....lb. .20½- —
820, bbls., c.l. .....lb. .21½- —
l.c.l. .....lb. .22 - —
926, bbls., c.l. .....lb. .19 - —
l.c.l. .....lb. .19½- —

B-94 (85% in xylol), bbls., c.l. .....lb. .24 - —
l.c.l. .....lb. .24½- —

Amberol, D-96, bbls., c.l.....lb. .25½- —
l.c.l. .....lb. .26 - —

Amberlac and Amberol prices are f.o.b. manufacturer's plant, with minimum transportation charges allowed to destination on shipments of one barrel or more in district 1, comprising any point in the United States except in the States of Arizona, California, Colorado, Idaho, Montana, New Mexico, Nevada, Oregon, Texas, Utah, Washington and Wyoming.

Aquaplex (resin emulsion type), S-6, bbls., c.l..lb. .14 - —
l.c.l. .....lb. .14¼- —

Arocolors, distilled, dms., c.l., works..lb. .18 - —
ton lots, works.....lb. .18½- —
single dms., works.....lb. .19 - —

Arocolors, undistilled, dms., c.l., works..lb. .15½- —
ton lots, works.....lb. .16 - —
single dms., works.....lb. .16¼- —
undistilled, dms., c.l., works..lb. .15¼- —
ton lots, works.....lb. .16 - —
single dms., works.....lb. .16¼- —

B

Bakelite, restricted materials, C-9 resin solution, BJ-16580, c.l..lb. .26 - —
single drums.....lb. .26½- —
100% phenolic, dark, heat hardening, BR-2987, c.l..lb. .29 - —
single drum.....lb. .29½- —
non-heat hardening, BR-1329, c.l..lb. .29 - —
single drums.....lb. .29½- —
BR-9476, c.l.....lb. .29 - —
single drum.....lb. .29½- —
Pale, non-heat hardening, BR-8900, c.l..lb. .39 - —
single drum.....lb. .39½- —
Dispersion resins, BK-16302, c.l..lb. .2770- —
single drum.....lb. .2820- —
BK-16700, c.l.....lb. .27 - —
single drum.....lb. .27½- —
Lacquer resin, BJ-15408, c.l. lb. .24 - —
single drum.....lb. .24½- —
Modified phenolic resin, BR-11554, c.l..lb. .18 - —
single drum.....lb. .18½- —
Phenolic "resin-baking" resins and solutions, BV-8906, c.l..lb. .20 - —
single drum.....lb. .20½- —
XV-15376, c.l.....lb. .26 - —
single drum.....lb. .49½- —
XV-17656, c.l.....lb. .49½- —
single drum.....lb. .50 - —

Bakelite, phenolic resins, oil modified, BR-302, c.l....lb. .3460- —
single drum.....lb. .3510- —
BR-2175, c.l.....lb. .38 - —
single drum.....lb. .38½- —
Plasticizing resins, BJ-14424, c.l..lb. .22 - —
single drum.....lb. .22½- —
BR-14877, c.l.....lb. .44½- —
single drum.....lb. .45 - —
Styrene oil soluble resins, XRS-1, c.l..lb. .40 - —
single drum.....lb. .40½- —
XRS-2, c.l.....lb. .48 - —
single drum.....lb. .48½- —
Standard materials, C-9 resin concentrate, BR-13260, c.l..lb. .37 - —
single drum.....lb. .37½- —
C-9 resin, oil modified, BR-17920..c.l..lb. .34 - —
single drum.....lb. .34½- —
100% phenolic resins, pale, heat hardening, BR-3360, c.l..lb. .36 - —
single drum.....lb. .36½- —
BR-10282, c.l.....lb. .32 - —
single drum.....lb. .32½- —
BR-14634, c.l.....lb. .30 - —
single drum.....lb. .30½- —
Non-heat hardening, BR-264, c.l..lb. .36 - —
single drum.....lb. .36½- —
BR-4036, c.l.....lb. .37 - —
single drum.....lb. .37½- —
BR-9432, c.l.....lb. .28 - —
single drum.....lb. .28½- —
BR-17770, c.l.....lb. .32½- —
single drum.....lb. .33 - —
Resin concentrates, BR-15775, c.l..lb. .26 - —
single drum.....lb. .26½- —
XR-15778, c.l.....lb. .27½- —
single drum.....lb. .28 - —
Dispersion resins, BK-3962, c.l..lb. .2770- —
single drum.....lb. .2820- —
BK-16624, c.l.....lb. .22½- —
single drum.....lb. .23 - —
Lacquer resin, BR-9367, c.l.. lb. .19 - —
single drum.....lb. .19½- —
Modified phenolic resins, BR-2072, c.l..lb. .23 - —
single drum.....lb. .23½- —
Phenolic "resin baking" resins and solutions, BV-1600, c.l..lb. .30 - —
single drum.....lb. .30½- —
BV-10673, c.l.....lb. .35 - —
single drum.....lb. .35½- —
XR-17620, c.l.....lb. .26½- —
single drum.....lb. .27 - —

Bakelite materials in less than one-drum quantities are ½c. per pound higher than single drum quantities. All prices are f.o.b. manufacturer's plant or warehouse; minimum transportation charges prepaid on units of standard drums or over to destination in United States except as follows:—add 1c. per pound for delivery to Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming.

C

Celloiyn 102, works, c.l.....lb. .20 - —
10 dms.....lb. .20¼- —
1-9 dms.....lb. .20½- —
Cumar resin, AX, non-ret. dms., net weight..lb. .06¼- —
BX, net weight.....lb. .06¼- —
CX, gross weight.....lb. .05¾- —
DX, gross weight.....lb. .05¼- —
EX, gross weight.....lb. .05¼- —
FX, gross weight.....lb. .05¾- —
MH, col. 1.....lb. .11¾- —
1½-2.....lb. .10¾- —
2½-3½.....lb. .09¾- —
9.....lb. .06¼- —
MS.....lb. .10¾- —
P, 10°-60° C., col. 2½ and darker..lb. .10¾- —
RH.....lb. .10¾- —
RS.....lb. .10¾- —
V col. ½.....lb. .12¾- —
1.....lb. .11¾- —
1½-2.....lb. .10¾- —
2½ and darker.....lb. .09¾- —
W col. ½.....lb. .13½- —
1.....lb. .12½- —
1½-2.....lb. .11½- —
2½ and darker.....lb. .10½- —

All "P" grades with melting point below 80 degrees C., and grades AX and BX are shipped in steel drums. Grades CX, DX, EX and FX are sold on a gross weight basis. All other grades are sold on a net weight basis and are shipped in destructible metal drums, but their packaging is subject to change without notice. Prices are based on f.o.b. plant at Frankfort, Pa., freight equalized with Pittsburgh.

D

Dow Resin 276 V-2 and V-2, 55-gal. drums, c.l., works, lb. .24 - —
l.c.l., same basis.....lb. .24½- —
5 and 10-gal. drums, same basis..lb. .30 - —
DC-804, dms., 50 gals., works..lb. 18.65 - —
20 gals., same basis...lb. 18.65 - —
10 gals., same basis...lb. 19.40 -19.70
Durez Alkyd type), A-27 (60% in xylol), bbls., c.l.lb. .20 - —
l.c.l. .....lb. .20½- —
A-30 (60% in xylol), bbls., c.l..lb. .21 - —
l.c.l. .....lb. .21½- —
C-45HV (60% in mineral thinner)..lb. .17½- —
l.c.l. .....lb. .18 - —
C-45HV (100% solids), bbls., c.l..lb. .27½- —
l.c.l. .....lb. .28¼- —
C-45 LV (100% solids), bbls., c.l..lb. .24½- —
l.c.l. .....lb. .25¼- —
C-49 (60% in mineral thinner), bbls., c.l..lb .19 - —
l.c.l. .....lb .19½- —
100% solids, bbls., c.l..lb. .28¼- —
l.c.l. .....lb. .30¼- —
D 65 (70% in mineral thinner), bbls., c.l.....lb. .22 - —
l.c.l. .....lb. .22½- —
E-71 (100% solids), bbls., c.l. lb. .24¼- —
l.c.l. .....lb. .25¼- —
E-73 (100% solids), bbls., c.l. lb. .24¼- —
l.c.l. .....lb. .25¼- —
ND-77-B (60% in xylol), bbls., c.l..lb. .19½- —
l.c.l. .....lb. .20 - —
AL-210 (100% solids), bbls., c.l..lb. .19 - —
l.c.l. .....lb. .19½- —

Durez prices are f.o.b. manufacturer's plant, with minimum transportation charges allowed to destination on shipments of one barrel or more in district 1, comprising any point in the United States except in the States of Arizona, California, Colorado, Idaho, Montana, New Mexico, Nevada, Oregon, Texas, Utah, Washington and Wyoming.

→Use Horse Head XX Lead-Free Zinc Oxides

● USE THEM TO EXTEND SCARCE HIDING PIGMENTS

Don't forget zinc oxide is a hiding pigment.

● USE THEM AS A REPLACEMENT FOR LEADED ZINC OXIDES

In exterior house paints lead and zinc ratios can be varied readily.

● QUALITY OF PAINTS

Horse Head XX Lead-Free Zinc Oxides have good color, brightness, consistency and uniformity.

Send for the Zinc Oxide Pigment Selection Chart

New Jersey Zinc

THE NEW JERSEY ZINC COMPANY

160 FRONT STREET, NEW YORK 7, N. Y.

Durtta, 1301, pale, one drum and over..lb. .29 - —
smaller lots.....lb. .30 - —
Durtte prices are f.o.b. Phila., Pa., with freight allowed east of Rocky Mts.

E

Esterol, Group "A," A (E.S. 2) non-ret. dms., c.l., works, frt. alld. in U. S. except Ariz., Calif., Colo., Ida., Mont., Nev., N. M., Tex., Utah, Wash., Wyo..lb. .15½- —
l.c.l. .....lb. .16 - —
E (E.S. 161), 11 (E.S. 201), c.l., same basis lb. .10 - —
l.c.l. .....lb. .16½- —
22 (E.S. 202), c.l., same basis. lb. .13 - —
l.c.l. .....lb. .12½- —
lb. .11 - —
25 (E.S. 246), same basis, any quantity .....lb. .11 - —
33 (E.S. 208), c.l., same basis. lb. .15½- —
l.c.l. .....lb. .16 - —
862 (E.S. 19), c.l., same basis. lb. .16½- —
l.c.l. .....lb. .17 - —
880 (E.S. 56), c.l., same basis, lb. .15 - —
l.c.l. .....lb. .15½- —
790 (E.S. 94), c.l., same basis. lb. .13 - —
l.c.l. .....lb. .15½- —
1800 (E.S. 58), 2185 (E.S. 60), c.l., same basis..lb. .15 - —
l.c.l. .....lb. .15½- —
2000 (E.S. 72), c.l., same basis. lb. .13 - —
l.c.l. .....lb. .15½- —
Group "B," B (E.S. 3), c.l., same basis..lb. .15 - —
l.c.l. .....lb. .15½- —
H-1 (E.S. 30), c.l., same basis. lb. .19 - —
l.c.l. .....lb. .19½- —
1-L (E.S. 14), c.l., same basis. lb. .16½- —
l.c.l. .....lb. .17 - —
F-V (E.S. 42), 830 (E.S. 267), c.l., same basis..lb. .16¾- —
l.c.l. .....lb. .17½- —
2002 (E.S. 252), c.l., same basis..lb. .12 - —
l.c.l. .....lb. .12½- —
2165 (E.S. 60), c.l.....lb. .15 - —
l.c.l. .....lb. .15½- —
2195 (E.S. 230), c.l., same basis..lb. .12 - —
l.c.l. .....lb. .16½- —
2633 (E.S. 69), c.l., same basis..lb. .14½- —
l.c.l. .....lb. .15 - —
4040 (E.S. 230), c.l.....lb. .15 - —
l.c.l. .....lb. .15½- —

Group "A" are standard production items normally carried in the manufacturer's inventory. Group "B" are not always so carried.

Ethocel, ctns. (50-lb.), 5,000 lbs. or more, frt. alld. 100 lbs. up, works..lb. .50 - —
under 5,000 lbs., same basis.. lb. .52 - —
under 50 lbs., same basis..lb. .60 - —

F

Flexalyn, solid, non-ret. black iron dms., c.l., f.o.b. cars, destination, zone 1. lb. .16½- —
10 dms., same basis....lb. .17 - —
1-9 dms., same basis..lb. .18½- —
C, non-ret., black iron dms., c.l., f.o.b. cars, destination, zone 1..lb. .15¼- —
10 dms., same basis....lb. .16 - —
1-9 dms., same basis..lb. .17½- —
solution, non-ret. dms., c.l., f.o.b. cars, destination, zone 1..lb. .16 - —
10 dms., same basis....lb. .16¾- —
1-9 dms., same basis..lb. .18½- —
C, net-ret. dms., c.l., f.o.b. cars, destination, zone 1. lb. .15 - —
10 dms., same basis...lb. .15¾- —
1-9 dms., same basis...lb. .17¼- —
FCD 501, 100%, non-ret. dms., c.l., works, frt. alld. Zone 1. lb. .24½- —
l.c.l. .....lb. .26¼- —
515-X, 70%, c.l., same basis.lb. .22 - —
l.c.l. .....lb. .22½- —
515, 70%, c.l., same basis...lb. .19 - —
l.c.l. .....lb. .19½- —
515, 100%, c.l., same basis..lb. .26½- —
l.c.l. .....lb. .27¼- —
517, 60%, c.l., same basis...lb. .17 - —
l.c.l. .....lb. .17½- —
521, 50%, c.l., same basis...lb. .14½- —
l.c.l. .....lb. .15 - —
521 LV, 50%, c.l., same basis. lb. .14½- —
l.c.l., same basis.....lb. .15 - —
525, 50%, c.l., same basis...lb. .14½- —
l.c.l. .....lb. .15 - —
525 LV, 60%, c.l., same basis. lb. .17 - —
l.c.l., same basis.....lb. .17½- —
527, 70%, c.l., same basis....lb. .18½- —
l.c.l. .....lb. .19 - —
527, 100%, c.l., same basis.lb. .26 - —
l.c.l. .....lb. .26¾- —
528, 70%, c.l., same basis...lb. .16¾- —
l.c.l. .....lb. .17¼- —
535, 50%, c.l., same basis...lb. .16¾- —
l.c.l. .....lb. .17¼- —
538, 50%, c.l., same basis...lb. .17½- —
l.c.l. .....lb. .18 - —
545, 50%, c.l., same basis...lb. .17 - —
l.c.l. .....lb. .17½- —
555, 50%, c.l., same basis, lb. .16½- —
l.c.l. .....lb. .17 - —
565, 60%, c.l., same basis...lb. .19¼- —
l.c.l. .....lb. .20 - —
573, 50%, c.l., same basis...lb. .12 - —
l.c.l. .....lb. .12½- —
maleic, 3-V, non-ret. dms., c.l., works, frt. alld., zone 1. lb. .19 - —
l.c.l. .....lb. .19½- —
4, c.l., same basis.....lb. .19 - —
l.c.l. .....lb. .19½- —
4-V, c.l., same basis.....lb. .19½- —
l.c.l. .....lb. .20 - —
5-V, c.l., same basis.....lb. .19½- —
l.c.l. .....lb. .20 - —
6-V, c.l., same basis.....lb. .20¼- —
l.c.l. .....lb. .21 - —
16, c.l., same basis.....lb. .21½- —
l.c.l. .....lb. .22 - —
phenolic, 101, non-ret. dms., c.l., works, frt. alld. Zone 1..lb. .32 - —
l.c.l. .....lb. .32½- —
102, c.l., same basis.....lb. .31 - —
l.c.l. .....lb. .31½- —
modified phenolic, 122, non-ret. dms., c.l., works, frt. alld. Zone 1..lb. .18 - —
l.c.l. .....lb. .18½- —
140, c.l., same basis.....lb. .19¼- —
l.c.l. .....lb. .20 - —
142, c.l., same basis.....lb. .18 - —
l.c.l. .....6.....lb. .18½- —
144, c.l., same basis.....lb. .20 - —
l.c.l. .....lb. .20½- —

FCD, modified phenolic, 157, c.l., same basis..lb. .18½- —
l.c.l. .....lb. .19 - —
163, c.l., same basis.....lb. .18½- —
l.c.l., same basis.....lb. .19 - —
165, c.l., same basis.....lb. .20 - —
l.c.l., same basis.....lb. .20½- —

G

G, resin, dms., gross weight, works..lb. .08 - —

Geon polyvinyl resins, Nos. 101 and 102, 30,000 lbs., works. lb. .33 - —
5,000 to 29,999 lbs., works.lb. .34 - —
200 to 4,999 lbs., works...lb. .36 - —
up to 199 lbs., works.....lb. .50 - —
202, 30,000 lbs., works.....lb. .36 - —
5,000 to 29,000 lbs., works.lb. .37 - —
200 to 4,999 lbs., works..lb. .39 - —
up to 199 lbs., works.....lb. .56 - —
203, 30,000 lbs., works.....lb. .38 - —
5,000 to 29,000 lbs., works.lb. .39 - —
200 to 4,999 lbs., works..lb. .41 - —
up to 199 lbs., works.....lb. .58 - —

Gual-a-phene, non-ret. dms., dms. incl., works, 50-55 gals. gal. 2.50 - —
10 gals., two fives, per case works gal 2.57 - —
5 gals., one can per case, works..gal. 2.62 - —
6 gals., six cans to metal case works gal. 2.72 - —
1 gal., in single carton, works..gal. 2.82 - —

H

Hercolyn (see methyl abietate hydrogenated) in Current Market Quotations.

Hydrogum, P-190, dms., c.l...lb. .14½- —
l.c.l. .....lb. .15 - 15¼

I

Isolite (see zinc-iron oxide pigment in regular list above).

K

Koresin, f.o.b. works, one ton or more, dms..lb. .40 - —
single drum.....lb. .42 - —
less than one drum.....lb. .52 - —

L

Lewisol resin, 28, non-returnable light-gauge steel dms., c.l., f.o.b. cars, destination, zone 1..lb. .21 - —
l.c.l., 10 dms., same basis. lb. .21½- —
1-9 dms., same basis..lb. .22 - —
33, c.l., same basis.....lb. .21 - —
l.c.l., 10 dms., same basis. lb. .21½- —
1-9 dms., same basis...lb. .22 - —

Lewisol resin prices are f.o.b. cars, New Eng. and Middle Atlantic States, Va., W.Va., N.C., Ky., O., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo. Prices are dms. included, not returnable; net 30 days.

M

Metronite pigment, 120 and 180 mesh, containers included, c.l., f.o.b. Milwaukee.. ton.12.00 - —
l.c.l., same basis.....ton.14.00 - —
250 mesh, containers included c.l., same basis..ton.18.00 - —
l.c.l., same basis.....ton.20.00 - —
325 mesh, containers included, c.l., same basis..ton.20.00 - —
l.c.l., same basis.....ton.26.00 - —
400 mesh, containers included, c.l., same basis..ton.27.50 - —
l.c.l., same basis.....ton.38.00 - —

N

Neo-fat drying oil, 170, dms., c.l., divd..lb. .16¾- —
190, dms., c.l., divd.....lb. .21¾- —
290, dms., c.l., divd.....lb. .23¾- —
fatty acid, 8R, dms., c.l., divd. lb. .14¾- —
17 dms., c.l., divd.....lb. .14¾- —
19, dms., c.l., divd.....lb. .19¾- —

Neo-fat prices are ½c. per lb. higher in all States west of the Rocky Mountains. Drums are included and not returnable.

Nevillac, pale, hard, color 1-2, melting point 85-95°C., drums, works..lb. .19 - —
hard, color 2-½-4, melting point 85-95° C, same basis..lb. .17 - —
color 2-½-4, melting point 65-75°C., same basis..lb. .17 - —
10 C, color ½-4, same basis..lb. .24 - —
LX-453, same basis.....lb. .22 - —
OA, same basis.....lb. .45 - —
RP, same basis.....lb. .35 - —
TS, same basis.....lb. .45 - —
RT, same basis.....lb. .31 - —
RX, same basis.....lb. .31 - —
Neville resin,[5] R-1 nevindene, color ¼, dms., works..lb. .13½- —
R-3, nevindene, color 1, dms., works..lb. .12½- —
R-5, nevindene, color 1¼-2, dms., works..lb. .11½- —
R-6, nevindene, color 2¼-3¼, dms., works..lb. .10½- —
R-7, N.P.S., color below 3, dms., works..lb. .12¾- —
R-9, hard, color ½, dms., works..lb. .12¾- —
R-10, hard, color 1, dms., works..lb. .11¾- —
R-11, hard, color 1¾-2, dms., works..lb. .10¾- —
R-12, hard, color 2½-3½, dms., works lb .09¾- —

...its Natural Resins again!

Primary markets in the Far East have opened up again . . . and U.S.I. is once more bringing Damar, Batu, Black East India, Pale East India, and other popular natural resins into this country.

As a manufacturer of *synthetic* resins as well, U.S.I. is once again able to offer you a complete resin line.

Write or phone today for samples and further data.

SYNTHETIC RESINS

ESTER GUMS	*all types*
CONGO GUMS	*fused and esterified*
*AROPLAZ	*alkyd and allied materials*
*AROFENE	*pure phenolics*
*AROCHEM	*modified types*

NATURAL RESINS

Pale East India	Manila (Alcohol-Soluble)
Batu	Elemi
Black East India	Red Gum
Pontianak	Congo—Raw
Loba	Kauri

Damar, Batavia and Singapore

U.S.I. INDUSTRIAL CHEMICALS, INC.
[illegible] East 42nd Street New York 17, N. Y.
BRANCHES IN ALL PRINCIPAL CITIES

Neville resin, R-13, medium, color ½, dms., works..lb. .12¾- —
R-14, medium, color 1, dms., works..lb. .11¾- —
R-15, medium, color 1½-2, dms., works..lb. .10¾- —
R-16, medium, color 2½-4, dms., works..lb. .09¾- —
R-16A, medium, color 7-10, dms., works..lb. .09¼- —
R-17, medium, soft, color 3½-8, dms., works..lb. .10¾- —
R-19, medium, soft, color 3½-8, dms., works..lb. .10¾- —
R-21, soft, color 3½-8, dms., works..lb. .10¾- —
R-22, special, soft, color 3½-8, dms., works..lb. .10¾- —
R-27, medium, soft, color 1, dms., works lb .13¾- —
R-28, medium, soft, color 1½-2 dms., works..lb. .12¾- —
R-29, medium, soft, color 2½-8 dms., works..lb. .10¾- —
465, 110-125°C., dms., gross weight, Pittsburgh..lb. .03½- —

Neville resin prices, except 465 resin, are freight equalized with Phila. Less than full drum shipments are 5c. per pound additional. f.o.b. Neville Island, Pa.

Nevilloid, C-55 emulsion, ret. dms., works..lb. .12 - —
C-10 emulsion, ret. dms., works. lb. .1125- —
Nextex, 10, returnable dms., works..lb. .08 - —
90, returnable dms., works.lb. .20 - —
Nuba, 1, 80-90° C., dms., gross weight, works..lb. .0290- —
2, 100-125° C., dms., gross weight, works..lb. .0290- —
3x, 135-150° C., dms., gross weight works..lb. .04¼- —
weight, Pittsburgh..lb. .03½- —
pkgs..lb. .34 - —
100-lb. pkgs.....lb. .35 - —
Calcium, 5%, 400-lb. pkgs..lb. .25½- —
100-lb. pkgs.....lb. .26½- —
Iron, 6%, 400-lb. pkgs.....lb. .16½- —
100-lb. pkgs.....lb. .17½- —
Lead, 24%, 450-lb. pkgs...lb. .16 - —
100-lb. pkgs.....lb. .17 - —
37%, 500-lb. pkgs.....lb. .24 - —
100-lb. pkgs.....lb. .25 - —
Manganese, 6%, 400-lb. pkgs. lb. .17¾- —
100-lb. pkgs.....lb. .18¾- —
Zinc, 8%, 400-lb. pkgs.....lb. .17¾- —
100-lb. pkgs.....lb. .18¾- —

All prices are dlvd. to customer's plant everywhere in continental U.S.A.

P

Paradene, No. 1, 75-90° C., color 12-16, dms., gross wt., works, lb. .0525- —
2, 100-125° C., color 12-16, dms., gross wt., works.lb. .0525- —
33, 34, color 10-15, dms., works, lb. .0625- —
35, color 10-15, dms., works, gross wt..lb. .0575- —

Paradene prices are freight equalized with Philadelphia, Pa.

Paranol resin, hard, No. 1, any quantity..lb. .17½- —
extra hard, No. 1, c.l., any quantity..lb. .18 - —
25, l.c.l., dlvd.....lb. .18 - —
54, l.c.l., dlvd.....lb. .21 - —
200, l.c.l., dlvd.....lb. .20 - —
500, l.c.l., dlvd.....lb. .19 - —
850, l.c.l., dlvd.....lb. .19 - —
1700, l.c.l., dlvd.....lb. .21 - —
1750, l.c.l., dlvd.....lb. .19 - —

Paraplex (resin plasticizers), RG-2 (60% in toluol), bbls., c.l..lb. .28½- —
l.c.l. .....lb. .29 - —
(100% solids), bbls., c.l.....lb. .44½- —
l.c.l. .....lb. .45¼- —
RG-8 (100% solids), bbls., c.l., lb. .29 - —
l.c.l. .....lb. .29¾- —
G-20 (60% in butyl acetate), bbls., c.l..lb. .46½- —
l.c.l. .....lb. .47 - —
(100% solids), bbls., c.l.....lb. .69 - —
l.c.l. .....lb. .69¾- —
5-B (80% in xylol), bbls., c.l.lb. .23½- —
l.c.l. .....lb. .24 - —
(100% solids), bbls., c.l.....lb. .28½- —
l.c.l. .....lb. .29¼- —
AL-16 (70% in xylol), bbls., c.l. lb. .23 - —
l.c.l. .....lb. .23½- —
(100% solids), bbls., c.l.....lb. .31 - —
l.c.l. .....lb. .31¾- —
AL-111 (100% solids), bbls., c.l..lb. .22 - —
l.c.l. .....lb. .22¾- —

Paraplex prices are f.o.b. manufacturer's plant, with minimum transportation charges allowed to destination on shipments of one barrel or more in district 1, comprising any point in the United States except in the States of Arizona, California, Colorado, Idaho, Montana, New Mexico, Nevada, Oregon, Texas, Utah, Washington and Wyoming.

Parazenes, 5 solid resins, c.l. and l.c.l., dlvd..lb. .13 - —
4634 solutions (50% in mineral spirits), c.l., dlvd..lb. .11 - —
l.c.l. .....lb. .11¼- —
Pentalyn A, non-ret. dms., f.o.b. cars, destination, zone 1. lb. .17¼- —
10 dms., same basis....lb. .17¾- —
1-9 dms., same basis....lb. .18¼- —
G, non-ret. dms., f.o.b. cars destination, zone 1..lb. .18½- —
10 dms., same basis....lb. .19 - —
1-9 dms., same basis....lb. .19½- —
M, non-ret. dms., c.l., f.o.b. cars, destination, zone 1. lb. .20 - —
10 dms., same basis....lb. .20¼- —
1-9 dms., same basis....lb. .21½- —
M-802A, non-ret. dms., c.l., f.o.b. cars, destination, zone 1..lb. .20 - —
10 dms., same basis....lb. .20½- —
1-9 dms., same basis....lb. .21 - —
X, non-ret. dms., c.l., f.o.b. cars, destination, zone 1. lb. .20 - —
10 dms., same basis....lb. .20¼- —
1-9 dms., same basis....lb. .21 - —
P H.O., dms., works.....lb. .24 - —
Piccolastic, A-L, A-5, A-25, A-50, B-50, C-5, C-25, C-50, E-50 types, c.l., Clairton, Pa..lb. .29 - —
l.c.l., same basis.....lb. .30½- —

The above types are sold in heavy gauge steel drums, weighing approximately 52 lbs. each. Drums extra at $1.25 each, and non-returnable.

A-75, B-75, B-100, C-75, C-100, C-125, D-75, D-100, D-125, D.150, E-75, E-100, E-125 types, c.l., Clairton, Pa., lb. .20 - —
l.c.l., same basis.....lb. .20¼- —

The above types are sold on a net weight basis, in light gauge steel drums weighing approximately 15 lbs. each, drums included.

Piccolastic, FT, TX, FHF types, c.l., Clairton, Pa..lb. .12½- —
l.c.l., same basis.....lb. .13 - —

The above types are in heavy gauge steel drums, weighing approximately 52 lbs. each. Drums extra at $1.25 each, and non-returnable.

Piccolyte resins, S-10, S-25, S-40, dms., net. wt., f.o.b. Clairton, Pa., c.l..lb. .15 - —
l.c.l. .....lb. .15½- —
S-55, S-70, same basis, c.l.lb. .16 - —
l.c.l. .....lb. .16½- —
S-85, S-100, same basis, c.l.lb. .17 - —
S-55, S-100, same basis, c.l.lb. .17 - —
l.c.l. .....lb. .17½- —
S-115, same basis, c.l.....lb. .18 - —
l.c.l. .....lb. .18½- —
Piccoumaron resins, 420, 420-S, dms., gross wt., f.o.b. Clairton, Pa., frt. equald..lb. .06 - —
420-T, same basis.....lb. .0675- —
422-R, 423-R, 425-R, 427-R, dms., net. wt., same basis. lb. .1075- —
430, 435, bulk, gross wt., same basis..lb. .045 - —
440-T, same basis.....lb. .0635- —
450, 450-H and 450-S, same basis..lb. .05 - —
450-EH, same basis.....lb. .0975- —
460-T, same basis.....lb. .0575- —
XX-25, XX-40, bulk, net wt., same basis..lb. .0625- —
XX-55, dms., gross wt., same basis. lb .0575 - —
XX-70, 2X-100, same basis, lb. .0525- —
XX-115, same basis.....lb. .0575- —
T-115, same basis.....lb. .0725- —
70%, 420-S Sol., ret. dms., net wt lb. .078 - —
Pliolite, S-5, milled resin, 200-lb. dms., works..lb. .59 - —
Polypale, ester, No. 10, non-ret. dms., c.l., dlvd..lb. .12 - —
10 dms., same basis....lb. .12¼- —
1-9 dms., same basis...lb. .13¼- —

R

Resinous oil, No. XI, returnable dms., works..lb. .0100- —

S

Saran F-120 resin, c.l., works.. lb. .57 - —
l.c.l., same basis.....lb. .59 - —
F-122 latex, approx. 50% solids contained, wood bbls. (55 gals.), c.l., works..lb. .40 - —
l.c.l., same basis.....lb. .44 - —
10-gal. bbls., same basis.. lb. .50 - —
Silene (see Calcium silicate hydrated under C in Current Market Quotations)
Staybelite ester, No. 10, non-ret. dms., f.o.b. cars, c.l. destination, zone 1..lb. .18 - —
10 dms., same basis.....lb. .18¼- —
1 dm., same basis.....lb. .18½- —
Syntex resins, 9 (or 1922), non-ret. dms., c.l., works, Louisville, Ky..lb. .18¼- —
l.c.l. .....lb. .18¾- —
H12, c.l., same basis.....lb. .17¼- —
l.c.l., same basis.....lb. .17¾- —
H15, c.l., same basis.....lb. .14½- —
l.c.l., same basis.....lb. .15 - —
16, c.l., same basis.....lb. .19¾- —
l.c.l., same basis.....lb. .20¼- —
18, c.l., same basis.....lb. .17½- —
l.c.l. .....lb. .18 - —
19-B, c.l., same basis.....lb. .16½- —
l.c.l. .....lb. .16¾- —
19-C, c.l., same basis.....lb. .14¼- —
l.c.l. .....lb. .14¾- —
22, c.l., same basis.....lb. .15¾- —
l.c.l. .....lb. .16¼- —
23, c.l., same basis.....lb. .14¾- —
23-R, c.l., same basis.....lb. .14¾- —
l.c.l. .....lb. .15¼- —
l.c.l., same basis.....lb. .15¼- —
23-5D, c.l., same basis.....lb. .13 - —
l.c.l., same basis.....lb. .13½- —
28, c.l., same basis.....lb. .18¾- —
l.c.l. .....lb. .19¼- —
32, c.l., same basis.....lb. .15¼- —
l.c.l. .....lb. .15¾- —
40, 50, c.l., same basis.....lb. .16½- —
l.c.l. .....lb. .17 - —
40-LR, c.l., same basis.....lb. .18¼- —
l.c.l., same basis.....lb. .18¾- —
50, c.l., same basis.....lb. .16½- —
l.c.l., same basis.....lb. .17 - —
50-L, c.l., same basis.....lb. .17 - —
l.c.l., same basis.....lb. .17½- —
60-A, c.l., same basis.....lb. .21¾- —
l.c.l. .....lb. .22¼- —
60-AL, c.l., same basis.....lb. .22¼- —
l.c.l., same basis.....lb. .22¾- —
115, c.l., same basis.....lb. .12½- —
l.c.l. .....lb. .13 - —
117, c.l., same basis.....lb. .13½- —
l.c.l., same basis.....lb. .14 - —
121, c.l., same basis.....lb. .17½- —
l.c.l. .....lb. .18 - —
217, c.l., same basis.....lb. .15¼- —
l.c.l. .....lb. .15¾- —
217-R, c.l., same basis.....lb. .15¼- —
l.c.l., same basis.....lb. .15¾- —
1979, c.l., same basis.....lb. .17¼- —
l.c.l. .....lb. .17¾- —

U

Uformite, F-200-E (50% in butanol: xylol) bbls., c.l.lb. .20 - —
1-10 drum lots .....lb. .21½- —
F-226-E (50% in carrol alcohol), bbls., c.l..lb. .22 - —
1-10 drum lots.....lb. .22½- —
MM-55 (50% in butanol xylol), bbls., c.l..lb. .28½- —
1-10 drum lots.....lb. .29 - —
MU-50 (50% in butanol); xylol, bbls., c.l..lb. .28½- —
1-10 drum lots.....lb. .29 - —

Uformite prices are f.o.b. manufacturer's plant, with minimum transportation charges allowed to destination on shipments of one barrel or more in district 1.

V

Vanadiset resins, grade A, 285-300° F. m.p. whse lb. .0165- .035
H, 245-255° F. m.p., whse.lb. .0250- .050
C, 315-340° F. m.p., whse.lb. .0165- .035
D, 170-180° F. m.p., whse.lb. .0165- .035
E, 275-285° F. m.p., whse.lb. .0225- .050
F, 225-235° F. m.p., whse.lb. .0225- .050
pulverized, whse.....lb. .0850- .210
solution, whse.....lb. .4000- .650
Velsicol, resins, AD-6-3, dms., c.l., f.o.b. works..lb. .11¾- —
1-9 dms., works.....lb. .12¾- —
Solutions, AD-660, tankcars, works..lb. .08 - —
dms., c.l., works.....lb. .09¼- —
l.c.l., works.....lb. .09¾- —
AD670, tankcars, works....lb. .09 - —
dms., c.l., works.....lb. .10¼- —
l.c.l., works.....lb. .10¾- —
AB-400, tankcars, works...lb. .06¼- —
dms., c.l., works.....lb. .07¼- —
l.c.l., works.....lb. .07¾- —
Velsicol solvents, No. 1, tankcars, works..gal. .16 - —
dms., l.c.l., works.....gal. .22 - —
No. 1-A, tankcars, works..gal. .17 - —
dms., l.c.l., works.....gal. .23 - —
No. 2A, tankcars, works..gal. .20 - —
dms., c.l., works.....gal. .26 - —
AB11-4, dms., c.l., works..lb. .08¾- —
l.c.l., works.....lb. .09 - —
AR-53A, f.o.b. works, tankcars..lb. .23 - —
c.l. .....lb. .31 - —
l.c.l. .....lb. .32 - —
AR-53-B, f.o.b. works, tankcars..lb. .24 - —
c.l. .....lb. .30 - —
l.c.l. .....lb. .31 - —

Cost of drums, $3 extra remaining customer's property.

Vinylseal, modified vinyl acetate resin, 24.5% by weight, solution in toluene, T-24-9, non-ret. dms., 20-dm. lots, same basis..gal. 2.00 - —
drum lots, same basis....gal. 2.25 - —
less than drum lots, same basis..gal. 2.50 - —
28% by weight, solution in 82% methyl acetate, MA 26-18, 20-drum lots, same basis..gal. 2.15 - —
drum lots, same basis..gal. 2.40 - —
less drum lots.....gal. 2.65 - —

All "Vinylseal" containers except 5-gal. cbys. non-returnable.

Freight allowed to destinations in New England, Middle Atlantic States, Va., N.C., S.C., W. Va., O., Ky., Tenn., Ind., Ill., Mich., Wis., Ia., Mo. and Minneapolis, St. Paul, and Duluth, Minn. For shipments to all other points in U.S., add ½c. per lb. to c.l. and ¾c. to l.c.l. prices.

Vinyl chloride-acetate, VYLF, VYHH, VYNW, VYNU, VYNV, VYNY, VYNL, powdered, c.l. (30,000 lbs.), paper bags, f.o.b cars, South Charleston, W Va lb. .32 - —
10,000 to 29,999 lbs., same basis lb .34 - —
200 to 9,999 lbs., same basis, lb .35 - —
1 to 199 lbs., same basis..lb. .51 - —
VYNS, c.l. (30,000 lbs.), paper bags same basis lb .44 - —
10,000 to 29,999 lbs., same basis..lb. .45 - —
200 to 9,999 lbs., same basis, lb .46 - —
1 to 199 lbs., same basis..lb. .62 - —
VYCM, powd., c.l., 30,000 lbs., paper bgs., f.o.b. cars South Charleston, W. Va. lb. .39 - —
10,000-29,999 lbs., same basis..lb. .39 - —
200-9,999 lbs., same basis. lb. .40 - —
1-199 lbs., same basis. lb. .50 - —
VMCH, c.l., (30,000 lbs.), same basis lb. .39 - —
10,000 to 29,999 lbs., same basis..lb. .40 - —
200 to 9,999 lbs., same basis. lb. .41 - —
1 to 199 lbs., same basis lb. .57 - —

modified, acetate resins, AYAB, lumps (in fiber drums at option of seller); AYAA, AYAF, AYAT, granular (in paper bags only, f.o.b. cars South Charleston, W Va., freight paid to destination E. of Mississippi River, c.l. (30,000 lbs.)..lb. .40 - —
AYAB, AYAA, AYAF, AYAT, 2,000 to 29,999 lbs. same basis lb. .42 - —
200 to 1,999 lbs., same basis. lb. .45 - —
1 to 199 lbs., same basis.lb. .60 - —

chloride resins, AYAC, gran., fiber dms. at option of seller, c.l. (30,000 lbs.), f.o.b. cars, South Charleston, W Va lb. .42 - —
2,000-29,999 lbs., same basis. lb. .45 - —
200-1,999 lbs., same basis. lb. .47 - —
1-199 lbs., same basis..lb. .62 - —
QYNA, pwd., c.l. (30,000 lbs.), same basis..lb. .38 - —
10,000 to 29,999 lbs., same basis..lb. .34 - —
200 to 9,999 lbs., same basis. lb. .35 - —
1 to 199 lbs., same basis..lb. .51 - —

butyral resins, XYHL, XYHM, XYNC, granular, 96 to 97% solids, prices based on contained solids (in paper bags at option of sellers), 30,000 lbs., f.o.b. cars South Charleston, W. Va.. c.l...lb. .63 - —
10,00 to 29,999 lbs., same basis..lb. .83 - —
200 to 9,999 lbs., same basis. lb. .84 - —
1 to 199 lbs., same basis.lb. 1.00 - —

Z

Zinlac, orange or white, 50-gal. bbls..gal. 1.65 - —
kits (5 gals.).....lb. 1.85 - —
jugs (1 gal.).....gal. 1.95 - —

Durez
RESIN NEWS

Here are the facts about two well-known Durez resins . . . Durez 219 and Durez 220. Paint manufacturers everywhere have tested and enthusiastically approved their remarkable properties. Samples are available to those interested in making laboratory tests.

Durez 219

Terpene phenolic. Promotes hardness and fast dry. Has excellent solubility properties. For example, a non-penetrating flat wall paint liquid can be made with Durez 219 Resin and dehydrated castor oil or other oil using a high percentage of lime as shown in formula V-51115. This formulation produces extremely high viscosity at low solids.

A typical flat paint made with a vehicle of this type is F-51116. The paint is stable in the package, applies well, and has good hiding. It does not penetrate when applied to porous surfaces.

Durez 220

Terpene phenolic. Aids in producing fast drying, hard, abrasion-resistant architectural finishes with good durability.

Its many properties adapt it for use in a wide range of oleoresinous coatings, both air-drying and baking, and with the use of either hard- or soft-drying oils. Its high melting point gives finishes which set and dry rapidly and which acquire hardness and toughness in minimum time. Its pale color gives light-colored varnishes and enamel liquids which have excellent retention of color on drying and aging. Its complete solubility in oils and thinners give varnishes which are clear, free from seeds, and which dry smooth and glossy. Properly cooked varnishes remain stable on storage and do not produce a precipitate or sludge. Also, no "trick" cooking procedure is necessary, as the resin is completely soluble in drying oils at its melting point. Aged films of varnishes show no excessive embrittlement, as oxidation of the resin is negligible.

The low acidity of Durez 220 Resin enables the production of varnishes which body rapidly in the kettle and which have good viscosity. Compatibility with basic reactive pigments can be secured by proper treatment of the oil.

For samples or further information on above Durez resins, write to . .

DUREZ PLASTICS & CHEMICALS, INC.
1311 Walck Rd., North Tonawanda, N. Y.

DUREZ
RESINS THAT FIT THE JOB

Trade Briefs

Mineral Production in Alaska in 1945 showed a valuation of $10,210,000, an increase of 48 percent over the 1944 figure of $6.903,000, according to the Bureau of Mines.

Cliff Slusser, vice-president in charge of production of Goodyear Tire & Rubber Company, has been awarded a commemorative pin in recognition of his thirty-five years with the company.

J. E. Henkle, formerly assistant to J. M. Katz in the raw materials department of Swift & Co.'s plant food division, has been promoted to head of that department. Mr. Henkle succeeds Mr. Katz who died recently.

J. W. Apple has been made secretary-treasurer of the Central States branch of the American Association of Economic Entomologists, succeeding Mr. D. Farrar, who has become associate director of the Crop Protection Institute, Durham, N. H.

Wartime Research Data Available

Technical information and experimental data resulting from wartime studies by government agencies is being offered by the Office of Technical Services of the Department of Commerce.

Effective seasickness preventives developed by the Allies during the war are described in one report. The report describes a study conducted among seafaring GI's early in 1944 by the Navy.

Four types of pills, identical in appearance, were given in equal numbers to more than 4,000 men aboard thirty LST naval vessels on fifteen different days. The subjects were unaware that three of the pills contained varying amounts of hyoscine, a sedative drug, while the fourth contained only sugar (lactose), administered for its psychological effect.

Few of the subjects had had previous experience with ocean travel. For the purposes of the study men were considered seasick if they suffered nausea or vomited.

Of the men who took the sugar pill treatment in a moderate sea, more than 12 percent became seasick. This was over eight times the number that became seasick after taking the hyoscine preventive, and was considered proof that hyoscine is effective in moderate weather.

In rough water, although fewer of the hyoscine-treated men became sick than those in the sugar pill group, the difference was not significant. The investigators were doubtful that any remedy then available was effective in very rough weather, or that any remedy could be guaranteed to work for any individual at any given time. None of the three remedies containing hyoscine was judged to be more or less effective than the others.

Orders for the report (Motion Sickness Preventives; PB-23052; photostat, $1; microfilm, 50 cents; eleven pages. including two tables of data), should be addressed to the Office of Technical Services, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States.

Gas Drying Agents

Comprehensive technical information on liquid and solid gas drying agents, including the properties and methods of using each drying agent, is contained in a 152-page report now on sale by the Office of Technical Services. The material is potentially useful for the food, automotive, textile, chemicals, air conditioning, and other industries where humidity problems are significant.

Prepared in 1941 by O. A. Hougen and F. W. Dodge for the Office of Scientific Research and Development, the report was intended as a general reference work to assist in the solution of gas drying problems in national defense projects. It was held confidential until 1946.

Seven methods in general use for drying gases, according to the report, are cooling air below its dew point by the use of surface condensors; cooling below the dew point by the use of cold water sprays; compressing gases to a point where the partial pressure of the water vapor exceeds its saturation pressure; combining compression and cooling; absorption in spray chambers, using organic liquids, such as glycerin or aqueous solutions of salts, such as lithium chloride; absorption in packed columns, using a counter current flow of sulphuric acid, phosphoric acid or organic liquids, and absorption of water vapor in solid desiccants, such as silica gel or activated alumina.

Among the drying agents discussed are silica gel, activated alumina, magnesium and barium perchlorate, barium oxide, calcium oxide, activated carbon, lithium chloride, calcium chloride, sodium and potassium hydroxides, sulphuric and phosphoric acid and glycerol.

Orders for the report ("The Drying of Gases"; PB-23201; photostat, $11, microfilm, $2) should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

Anti-Fouling Paints

Experimental data showing that some highly pigmented anti-fouling paints when applied to the steel hulls of ships and immersed in sea water may behave as cathodes to accelerate fouling are contained in another report now on sale. The report was prepared by researchers for the United States Naval Research Laboratory.

It appears that the critical content of metallic copper pigments in anti-fouling composition lies somewhere between 25 and 30 percent. A pigmentation volume exceeding this percentage will nullify the anti-fouling properties of the composition when coupled with steel, and a corresponding acceleration in the rate of corrosion may be expected to follow. This does not apply to cuprous oxide pigments, which are effective irrespective of pigment concentration, the report states

Orders for the report ("The Inactivation of High Pigmented Anti-Fouling Films Applied to Steel"; PB-30539; photostat, $2; microfilm, $1; twenty-five pages, including tables, graphs and photographs) should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States.

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Our Technical Staff is at your service for practical information regarding the utilization of these resins in architectural white and pale tint enamels, aluminum vehicles, sanitary can coatings, baking primers and surfaces, and toy enamels.

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Humanizing Employment

All relations between employer and employees are human relations. They are determined and controlled by human behavior. These facts have all too far been lost to sight and mind by those, on both sides, who have so much to gain or to lose in the variations of their relations.

The relations of employer and employees have lost almost all personal touch through the managerial changes of the ever-growing commercial economic structure. In consequence, suspicions have displaced understanding; fears prevail where friendliness once was characteristic. This is illogical and unnecessary because both management and labor are working for the same objectives—and both know that they really will achieve more as their collaboration is increased.

The reasons why this essential collaboration falls short of adequacy are many. They are tied up in the complexities of human behavior and human motives. Their study on that fundamental basis was the major theme of a conference of the Society for the Advancement of Management last week. And much was accomplished toward the development of a recognition on the part of management that it has the greater competence for the improvement of its human relations in employment, as well as the greater responsibility. It was made most clear that talk will not resolve what actions have tangled; that understanding of one another's points of view and recognition of what is behind them are essential to the humanizing of employment, which is the only way that it can be made mutually satisfactory and beneficial.

Atom Controllers' Job

The President has named as the members of the Atomic Energy Committee five men, each of whom, he said, "has distinguished himself in his public and professional career" with "abilities and experience which will command the confidence of the country." One of the commissioners is an experienced nuclear physicist. The chairman has been a student of and contributor to the political control of atomic energy. Of the other three members, one is a banker; another has had to do with control of securities; the third is a Midwestern newspaper editor. It can be said that the experiences of the commissioners, at least, spell variety.

It is the statutory duty of the governmental atomists to prevent misuse of man's newest force, as well as to plan and strive for the realization of the latent or, at least, suspected social benefits of atomic fission. They have a largely unknown and enormously hazardous matter with which to deal. It is devoutly (in the best sense of the word) to be wished and hoped that they will measure up to their unprecedentedly important task.

It is of passing, at least, interest to recognize that one of the strongly advocated measures of international control of the fissionable atom and its destructive potentialities would lay control worldwide over the raw materials from which such atoms are derivable. The magnitude of that job now, with only one atom proved, will shed some light on how big is the job of controlling the subsequent steps. Narcotic control, by comparison, is extremely simple. And who is to control the adaptation of other atoms to the process of fission? It might be that making the board 40 percent financial has the right angle. Money is a mighty power.

Surplus Disposal Ideas

The latest idea in surplus disposal as a governmental function is to launch a simplified sales campaign—a "master plan," if you please—to dispose of 75 percent of what is left by the end of next January. One new idea is the cutting down, almost out, of paperwork. That, of course, was as big as usual in governmental functioning, but anybody who has had experience in trying to procure something from the surplus disposers knows that it was not paper or red tape that bunged-up the bottlenecks. Manwork—hand, leg, and brain—has been the biggest bung.

The big yearend sale of surplus governmental goods comes along just at the time when the scope of surplus is being somewhat extended. The Department of State has ruled that goods obtained as reparations from subdued enemy peoples are to be treated, in respect of disposal, as surplus. It is not yet the order that these goods are to be turned over to the War Assets Administration. A new idea of its own has been launched by the department. Much credit must be passed out in this connection, because the Department of State has called into conference on reparations disposals the Department of Commerce and other agencies. And the best thing is that out of this has come an interdepartmental committee with the duty of finding out what business would have government select as the kind of goods to be reparated to this country. There is a chance for business to do itself, as well as its customers, a deal of good.

All new ideas sound promising. But—a reliable manufacturer of toothpaste finds it impossible to buy back from the surplus disposers the leftover supplies of its commodity—even on an offer of 2 cents profit to the government on the price it paid for each tube. The maker is anxious to prevent jeopardy to its public goodwill by the possible distribution of its toothpaste which may have suffered in quality from some external influence. What motivates the surplus disposers has not been told. Their attitude certainly does not fit in with the erstwhile ranting about the refusal of purveyors to listen to suggestions that they take back surplus lots of their goods.

Surplus disposal, like all other kinds of ordinary business, is not a job for government workers. The big holiday season sale may do something, but buyers report that they are still running into stuff left over from the war between the States.

Washington Talks It Over

—*Continued from page* 5

Industrial Relations Branch, Bureau of Labor Statistics, U. S. Department of Labor, Washington 25, D. C.

Synthetic Fibers Studied

Department of Agriculture research specialists are carrying on some rather important investigations in the field of synthetic fibers. The aim is not to replace natural fibers with synthetics, even though the synthetics might be made from agricultural products, but rather to develop a synthetic that will improve the natural when the two are mixed.

The work is underway intensively at each of the four regional laboratories, and has to do with synthetic fibers low in "wet strength." Many will understand that term by recalling that wartime rayon stockings needed to dry forty-eight hours because they tore so easily when wet. One research objective is to find ways to increase wet strength.

The Southern laboratory has a new fiber-sarelon, from peanut protein—of a light-cream color and a texture reminiscent of both silk and wool. In heat-insulating and moisture-absorbing properties it resembles wool. It shrinks little and dyes well. A fiber called zein, from corn protein, is being studied by the Northern laboratory. It too resembles wool in appearance and dry strength.

Chicken feathers are being tested at the Western laboratory and a fiber from the protein, called keratin, has been produced experimentally, but its chief weakness is a low wet strength. Casein fiber, known for years, is being improved at the Eastern laboratory where researchers have developed a continuous process for manufacture of casein bristles to substitute for imported hog bristles used in brushes.

Surpluses Hit Stonewall

Liquidators of wartime surpluses of the Army and Navy located in foreign areas have run into a virtual stonewall in their efforts to trade off any part of these surpluses for materials which the ANMB regards as strategic or critical and should be stockpiled in this country.

It was one of the principal aims of Congress when it passed the Surplus Property Disposal Act that we get some of these vitally needed materials in return for the surplus property being disposed of, and special instructions were sent out to the liquidators abroad by the Foreign Liquidation Commissioner calling their attention to this provision of the law.

Foreign governments have been found willing to enter into trades but not of the things we want for the stockpile. For instance they have been willing to trade some of their buildings and grounds to house our embassies and foreign officers for surplus property, but when asked about trading some strategic materials their answer is "no." Such materials are basic sources of dollar exchange and the governments are keeping them for this purpose.

DDT Warning

The FTC has served warning on the insecticide industry that it is not going to stand for the use of letters that are phonetically similar to DDT as the tradename of an insecticide that doesn't contain DDT. The bugkiller either has to have DDT in it to be sold under this trade name or nothing similar can be used.

A small laboratory up in Massachusetts felt the commission's ire in this connection recently when charges were brought against it by the commission that its insecticide sold under the tradename of T.T.D. tended to deceive the public. The company stipulated to a cease and desist order rather than fight the case.

Heating Tablet for Arctic

The War Department has a lot of new gadgets and things it is planning to test out in the cold reaches of the North when it conducts operations "Frigid" and "Williwaw" this winter. Not the least interesting will be a new tablet for heating rations of the soldiers.

During the past war there was several types of heating materials for use by the soldiers at their battle stations and out of contact with their company mess, but none of these were entirely satisfactory. They either gave off too much light and endangered their positions, smoked up the utensils or produced toxic fumes.

The latest development in heaters, which preliminary tests indicate will overcome these objections, is one in tablet form, known as trioxane. It was developed by the Quartermaster Corps and is about 3 inches long, 1¼ inches wide, and 5/16 inch thick. It is non-toxic, burns with a steady blue flame and does not give off any appreciable odor. One tablet provides sufficient heat in still air to raise the temperature of a pound of water approximately 100° F.

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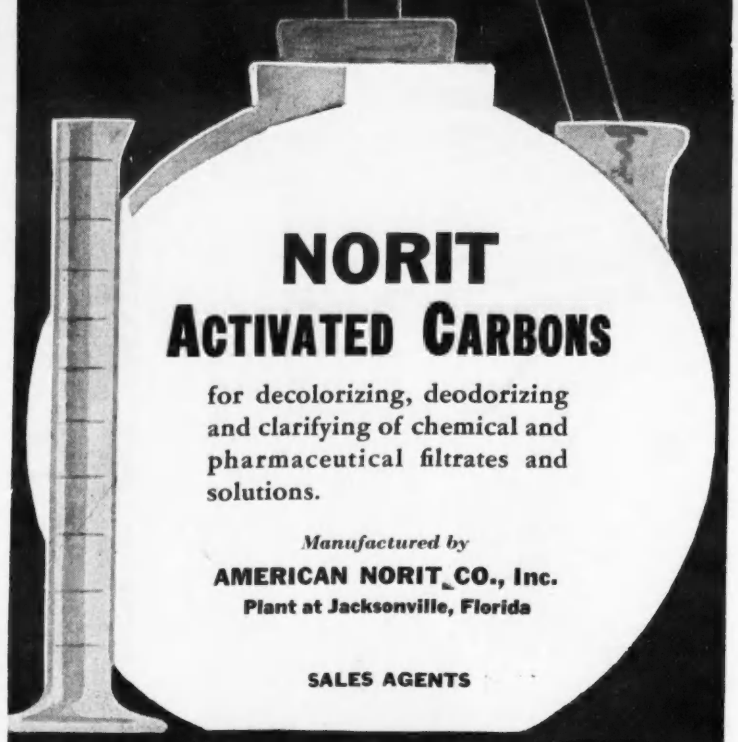

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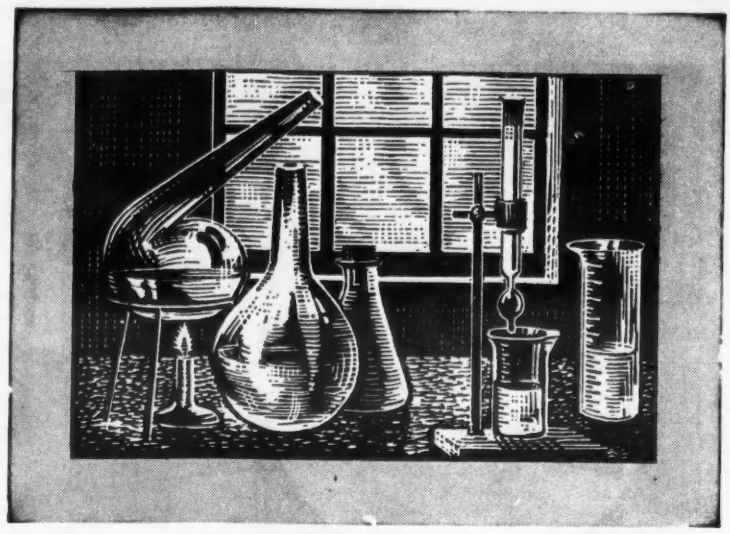

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Heavy Chemicals

Continued stringency in soda ash is being reflected in the production of about every chemical under the soda classification and in various other chemicals where soda ash is essential to their manufacture. According to the Department of Commerce, peak production of 4,718,000 tons of soda ash in 1944 represented a 60 percent increase over the 1939 figure of 2,960,000 tons and was nearly 2½ times the output of 20 years ago. In January-August 1946, soda ash produced by the ammonia-soda process totaled 2,790,000 tons, a 5 percent drop from the 2,925,000 tons in the same period last year. Shutdowns resulting from labor-management disputes and fuel shortages caused a drop in production by the ammonia soda process to a low of 303,000 tons in May, but by July output had recovered to 360,000 tons. Natural soda ash obtained from California amounts to about 180,000 tons annually.

Buying conditions in caustic soda are exceedingly tight with no apparent indication of easement and the situation is similar throughout the heavy chemical list. In many of the smaller chemicals, repairs from breakdowns have been delayed through inability to secure structural parts, thereby holding production down. Formic acid and formate of soda have been in heavy demand and are exceedingly tight and the same is true of oxalic acid and acetic acid. Carbon tetrachloride output has been kept down by the shortage of chlorine and the stringency in chlorine is being felt in the production of many chemicals and intermediates processed with this chemical. Producers are naming higher prices for thallium sulphate.

CPA has amended priorities regulation 32 to place a 30 day or practicable minimum working inventory on caustic soda, soda ash, bicarbonate of soda, soda sesquicarbonate, silicate of soda and soda phosphates.

Surplus industrial chemicals which the government bought for war purposes are being offered in a national sales campaign by the War Assets Administration. Included for sale at fixed prices are large quantities of hydrofluoric, muriatic, nitric and sulphuric acids, all types of gas cylinders, carbon dioxide, calcium chloride, copper naphthenate, zinc carbonate, water-treating compounds, borax, oxide and hydroxides, rubber processing chemicals, gases, explosives and blasting supplies. Stocks of some or all of these chemicals are located in practically all of WAA's 33 regions. The Inter-Regional Sales Division in each of those regions is prepared to locate the material in any of the regions. Most chemicals are available for export in accordance with Department of Commerce regulations.

Paper production as a percentage of six-day capacity was 106.8 in the week ending October 25, according to the American Paper and Pulp Association. This compares with 105.1 the previous week and 95.8 percent a year ago.

Production figures given below, unless otherwise designated, are from the Chemical Division of the United States Tariff Commission.

Acetic Anhydride—Output dropped in August to 39,954,493 pounds, compared with 44,520,734 pounds in July. Demand from the yarn and fiber mills as well as for plastics and resins has continued heavy.

Antimony Oxide—Producers appear to be meeting allocations without much difficulty. An active export demand was reported with relatively little stock being released. The entire movement is under government regulation.

Carbon Disulphide—Production recorded a moderate gain in August. The total registered 24,117,958 pounds, compared with 23,360,877 pounds in the preceding month.

Calcium Chloride — Market supply conditions have continued exceedingly tight and will likely remain so indefinitely. Aside from an unusually heavy consuming demand, production has been held down by the stringency in chlorine. Price control has been lifted from this chemical.

Market Trends

Prices Advanced

Thallium sulphate, $5 per lb.

Prices Reduced

None

Comparative Price Indexes

General Chemicals

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
172.2	172.2	172.2	168.9

Acids

Last week.	Prev week.	Last month.	Last year.
116.0	116.0	116.0	116.0

(For Current Prices see Page 9)

Carbon Tetrachloride — Although August figures show the largest output for this chemical for any of the first eight months, the market supply has been tightening severely during the past few weeks on account of the stringency in chlorine. The current market is in short supply with buyers required to resort to a lot of shopping to locate material for prompt shipment. August output registered 13,474,610 pounds, compared with 10,674,553 pounds in July and a previous high of 13,368,298 pounds recorded in February.

Chlorine—No improvement could be noted in buying conditions. Demand is running above production and the market shows indications of assuming a tighter condition. The container shortage has contributed to the delay in contract deliveries.

Manganese Carbonate — Production has been sufficient to meet essential requirements for the cement, peanut and textile industries and also for manganese chemicals. The market is not in free supply and occasional lots have been brought in from Liverpool.

Manganese Chloride — Shipments have run somewhat behind contract schedules. Urgent demand for cements has kept the movement of this chemical active while the shortage of some basic materials has kept production down.

Manganese Dioxide — Continued to hold a fair degree of market balance. Shipments have gone forward on a fairly prompt basis to meet a wide range of consuming requirements.

Nickel Chloride—Finding an outlet in the manufacture of other nickel chemicals and shows signs of tightening under the stringency in some of the basic materials.

Nickel Sulphate—Not as short as noted a month ago. Production appears to be gradually working up to the demand level. The market was not in free supply although it was stated limited quantities for prompt shipment could probably be purchased.

Potash Carbonate — Market condition did not change appreciably last week. As long as demand is running ahead of production a tight supply situation can be expected.

Potash Caustic — Tight and with no visible signs of easement in sight. The dry forms are in shorter supply than the liquid.

Potash Chlorate — Market situation has remained definitely tight under the maintenance of increased buying mostly from match factories. Demand has temporarily topped production and created a market shortage.

Soda Bicarbonate—Supply short of demand with production held down by the stringency in soda ash. Department of Agriculture sold 40,896 pounds of baking soda, packed in cartons in cases at Columbus, Ohio at 2c. per pound.

Soda Ash — Exceedingly tight buying conditions continued to feature this market and according to a report from the Department of Commerce, no easement in supplies is expected before late 1947 or 1948. Large producers of soda ash are running as near peak capacity as possible but they are unable to meet a skyrocketing demand. The average person does not buy soda ash, but it is essential in the manufacture of many articles in common use. The glass industry consumed 1,320,000 tons of soda ash in 1945; the production of caustic soda,

For Late Market Developments, See Page 4

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an essential material, took 1,000,000 tons; and another million tons was needed in the manufacture of chemicals such as the sodium phosphates used as builders and substitutes for scarce soap, and in water glass, an adhesive and soap extender. Other large consumers of soda ash are aluminum and other nonferrous metal manufactures (almost 250,000 tons in 1945); pulp and paper (150,000 tons); soap (nearly 150,000 tons); water softeners (100,000 tons); industrial and household uses (nearly 100,000 tons); textiles (nearly 70,000 tons) and petroleum products (about 25,000 tons). The glass companies need greatly increased quantities of soda ash because of the growing demand for glass containers, stemming from the present tin and paper container shortage, and the resumption of demand for window and automobile glass. Soda ash goes under export control on November 4 by an order from the office of International Trade as a means of preventing much of this material being siphoned off into export channels.

Soda, Caustic—Short with demand heavy and being fed from current production. Shipments continue considerably behind schedule with all grades definitely tight and the dry forms shorter than the liquid. Producers not inclined to place future contracts with established consumers until they have a clearer idea regarding the amount of material that can be made available for shipment next year.

Soda Chlorate — Shipments have been made on a fairly prompt basis regardless of a heavy consuming demand. A lot of this material has been channeled West to satisfy weed-killing requirements although there is also a steady miscellaneous industrial inquiry reaching the market.

Soda Phosphate—Shortage soda ash has kept production of all scarcities of this chemical down. Demand is active and sufficient to maintain a tight overall condition.

Soda Sulphide—Another one of the sodas that is having production held down by the continued shortage of basic materials. The movement is behind schedule which has contributed to the scarcity of available stocks.

Thallium Sulphate—Contrary to the opinions recently expressed by some suppliers of this chemical, the market is higher with the major domestic producer naming $17.50 a pound and reporting sales at this level.

Tin—An increase in the amount of tin permitted in the production of babbitt used in bearings was announced by CPA. This relaxation on the use of tin was effected by the issuance of Amendment 1 to the tin Order M-43. CPA said the action was taken because lead and antimony shortages are threatening the bearing industries, and not because of an increase in the supply of tin. The order now permits an unlimited tin content for the manufacture, repair, maintenance or replacement of multivane crosshead linings in locomotives or for lining aluminum crossheads, and up to 90 percent tin content for all other bearing purposes. Until now, most automotive type bearings were restricted to alloys containing 10 per cent or less tin. Babbitt is restricted to use in bearings only. CPA said that many metals such as copper-lead alloys, which have proven their worth in recent years as bearing metals, are superior to the tin base metals and for most of these applications the tin-base alloys will not be substituted. The lead-base babbitts have also proven superior to tin-base babbitts for many uses. However, the shortage of lead and antimony may force the use of some substitutes. CPA's conservation orders on lead (M-38) and tin (M-43) provide for a choice of either material.

Zinc Sulphate—Production has not been able to even off demand for this chemical although in some quarters the market was said to be in somewhat better shape than a month ago. The rayon mills are said to have taken an unusually large quantity this year and combined with the amount used in agriculture, the output was overtaxed. Production is expected to be increased shortly after the turn of the year.

Acids

Acetic—Steadily increasing demand has overtaxed production and brought about a very tight supply condition in this acid. It was stated that a number of inquiries for home and export were open at the close of the week. Production of synthetic in August was 24,383,068 pounds, compared with 23,907,485 pounds in July. The amount of recovered acid in August was 94,679,656 pounds, against 99,522,121

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pounds in the preceding month. Output of natural in August was the largest recorded for any single month so far this year. The total registered 2,676,437 pounds, compared with 2,423,495 pounds in July.

Formic — Heavy demand from the consuming industries has exceeded output and shipments have fallen considerably behind schedule. Demand from the manufacturers of mouton has been unusually heavy.

Hydrofluoric—One of the few acids that has remained in relatively free supply. Production has kept pace with demand for both home and export requirements with the container shortage the principal disturbing influence at present.

Nitric — Essential consuming requirements are reported to have been covered without leaving much acid over for additional wants. The shortage of carboys is having a tendency to delay shipments.

Oxalic — Buying conditions have continued tight with demand exceeding output by no small margin. Difficulty in securing materials for repair work at plants has kept production down in the face of a constantly increasing consuming demand.

Phosphoric—Consuming demand has kept above the production level and left the market in a definitely tight position. Difficulty in securing sufficient basic materials is said to be keeping output from expanding.

Sulphuric—Not in free supply but meeting most requirements on a fairly prompt basis in this area. Demand has remained broad enough to tax production which was temporarily held down by the maratime strike that bottle-necked the movement of sulphur to the port of New York.

Baltimore, Nov. 1.—The termination of the shipping strike, which kept 410 vessels in the port of New York ought to make a difference in the production of sulphuric acid, with sulphur one of the materials which had been held in ports of departure as well as points of delivery, and interferred with the operation of acid making plants everywhere. Just what the effect of the settlement will be when all of the kinks are adjusted cannot be definitely stated, but the ending of the struggle should not only increase output but possibly bring a modification of prices. There can be no doubt, however, that the restoration of peace will make for smoother working operations and perhaps have a quieting effect upon other labor elements which may otherwise feel inclined to go on the warpath. However, it will be understood that, with acid plants running almost entirely automatic, very few workers are required to run them, so that, the plant workers may be disposed to start nothing to cause further complications. At any rate, there should be enough sulphur to go around to meet all requirements.

CPA Weighing

—*Continued from page* 3

will make to Congress January 14 under the full employment law passed last session, but it will not necessarily follow that the committee's recommendations will be adopted by the President.

The OWMR study, on where the control orders of both CPA and OPA should finally come to rest, when these two agencies go out of existence, indicates that the White House is thinking along the lines of a single agency to handle these orders, rather than as has been suggested of turning the potash allocation order, for example, over to the Department of Agriculture, or the nonferrous metals orders over to the Bureau of Mines.

The argument in favor of this is that a single agency would have a more clearcut and stabilized policy in its dealings with business than would be the case if each department was determining its own policy on how control should be applied. Furthermore there would be less likelihood of favoritism being shown one industry as against another.

OPA's master control bill of products under price ceilings, which had been scheduled for issuance November 1, is essentially a decontrol action of major proportion. Only those items under price control are to be listed in the order and those not included therein are decontrolled automatically immediately.

Business is urging the OPA to speed up the issuance of the list because the piecemeal junking of price controls that has been going on during the past several weeks is exposing manufacturers to fresh squeezes between rising costs of materials and the ceilings on the end products.

Human Relations

—*Continued from page* 4

sibility. Both sides must clearly define their views and both must seek mutual understanding, and must know one another as human beings. They must maintain more adequate communications than are now the rule—a point that was emphasized by other speakers in all groups. Peace and its reasons deserve as much study as strife, Mr. Golden declared.

The role of personnel administration in employment relations was outlined by Guy B. Arthur, jr., vice-president of the American Thread Company. Top management does not yet adequately recognize its value, he said. Throughout there is not sufficient knowledge of human beings, not enough experience in human management. Relations policies must anticipate behavior. Day-to-day relations are more important than contractual obligations.

Mr. Arthur spoke appreciatively of the industrial relations charter which was constructed in Toledo and is now in use there.

The status of foremen was discussed by Bruce V. Moore, head of the Department of Psychology at Pennsylvania State College, who presented the results of a survey covering some 800 supervisory employees. This showed that 69.5 percent of those questioned believed that the supervisor is essentially a part of management, rather than of the working force, but there was a wide feeling that he is not so recognized by management and does not get the cooperation which he deserves. Professor Moore warned that both management and foremen will lose if the latter turn to labor unions in their discontent. The value of closer, franker, broader, and particularly prompter touch with supervisory employees was emphasized by several speakers.

Professor Moore's survey showed that foremen put the knowing how to do work and the showing of others at the top of their responsibilities. Knowing how to handle men and keep them loyal was a close second. Essentials of foremanship were topped by knowledge of human nature and how to handle men. About 32 percent of the foremen put knowledge of materials, tools, and processes first. Most found greatest satisfaction in (1) quality and (2) quantity of production. Most thought that more cooperation from management and among supervisors was the greatest need for improvement in their jobs.

Problems of industrial relations are not national or general, said Abraham A. Desser, supervisor of collective bargaining research for the National Industrial Conference Board; hence there is no place for a national or general pattern or formula for their solution. The problems are local, largely individual as to a concern. Often they arise from fear of depression, on the part of workers, fear by management that it will have to sacrifice rights. This calls for education—not only the customary talk of how useful education could be—so that misconceptions may be eliminated.

Speeches do no good, Mr. Desser said; they are largely self-deluding. The problem is fundamental in the social and commercial economy and must be approached with a rational recognition of the evident fact that walking out and calling names are not human relations or collective bargaining. Arbitration or mediation should be the starting point, not the last resort. Arbitration has no lasting effect now because it is not accepted as a remedy, merely taken as a placebo. Legislation gets nowhere. Understanding must be got—and applied.

Labor Relations

—Continued from page 3

States. In fact, the supreme court has during the latest annual period reviewed over thirty-five cases involving the construction of the scope and requirements of the law in a variety of situations, including the overtime section.

Generally, the disputes concerning the overtime provisions of the law revolve about two basic questions:—

1. What constitutes working hours for which the employee must be paid and which must be included in determining overtime hours, i.e., compensatory hours?

2. What is the employee's "regular rate of pay," which is the wording to be found in the law and upon which overtime is to be computed?

Space, of course, will not permit a detailed discussion of the multitudinous situations that have arisen in each of the broad categories of the two basic problems. This column will instead briefly review some of the more important specific and oft-recurring situations which our courts and the wage and hour division during the latest annual period have resolved either by decision or by the regulation and interpretation.

On the subject of compensatory hours, i.e., hours which, under the law, must be considered as working hours in determining compliance with the overtime requirements of the act, the following are some of the more important problems that have been dealt with:—

Lunch Periods

In general, if the employee is relieved of all duties during the lunch period, the time so spent by him, whether timeclock recorded or not, is not required to be included as hours worked. However, if the lunch period is too short to be of use by the employee and is more akin to a short rest or waiting period, then the contrary will obtain. Such lunch period would then have to be included as part of the working hours.

In one recent case, overtime compensation for one-hour lunch period was denied. In another, a one-half-hour lunch period was, on the other hand, considered as time worked for overtime purposes. This particular case involved guards. The case turned on the fact that these employees were not free to leave their posts during this so called "lunch period" and were not temporarily relieved of their duties.

Rest Periods

A rest period of twenty minutes or less has been considered as working time and the employer has been required to include such period as hours worked. The test is not whether the employee performs no actual physical or manual labor. The general test is rather one of freedom to leave the premises, the amount of time involved, and the absence of any purpose to circumvent the law.

Generally, these short rest periods are, therefore, deemed to be working hours. If the period is longer, it is excluded. What it comes down to in essence is the degree of freedom afforded the employee by the rest priods.

Changing Clothes

The time consumed by workers in changing clothes on the premises of the employer, if such change is required by the employer, will generally be deemed to be working hours. Whether or not the clothes are supplied by the employer is not too important and is not determinative. The department does recognize, however, a tolerance not in excess of five minutes at the end of the day.

In a situation where the employee is free to go home in his work clothes, but chooses of his own volition to change his clothes, the time so consumed by him is considered his own and does not constiute compensatory hours. The custom and the practice in the industry are given much weight.

Walking Time

This problem was one of the troublesome questions passed on by the supreme court during this annual period covered by the division's report. The court held that the time necessarily spent in walking to work on the employer's premises after punching the timeclock, amounting up to from two to twelve minutes daily, constituted working hours.

Neglible amounts of walking time will, however, be disregarded. Determination must be made in light of industrial realities.

Preparation Time

The supreme court, during the annual period of the report, has also passed on the question of employee activities after arriving at the place of work, but preliminary to actual work. It has, for example, held that preliminary activities such as putting on aprons, overalls, removing shirts, taping and greasing arms, preparing equipment for productive work, turning on switches, opening windows, and assembling and sharpening tools are compensable hours and must be included as working hours in computing overtime under the law. This supreme court decision on preparatory time, in all probability, explains the reason for the employees in the case of the large chemical company, as this column reported last week, having instituted their action.

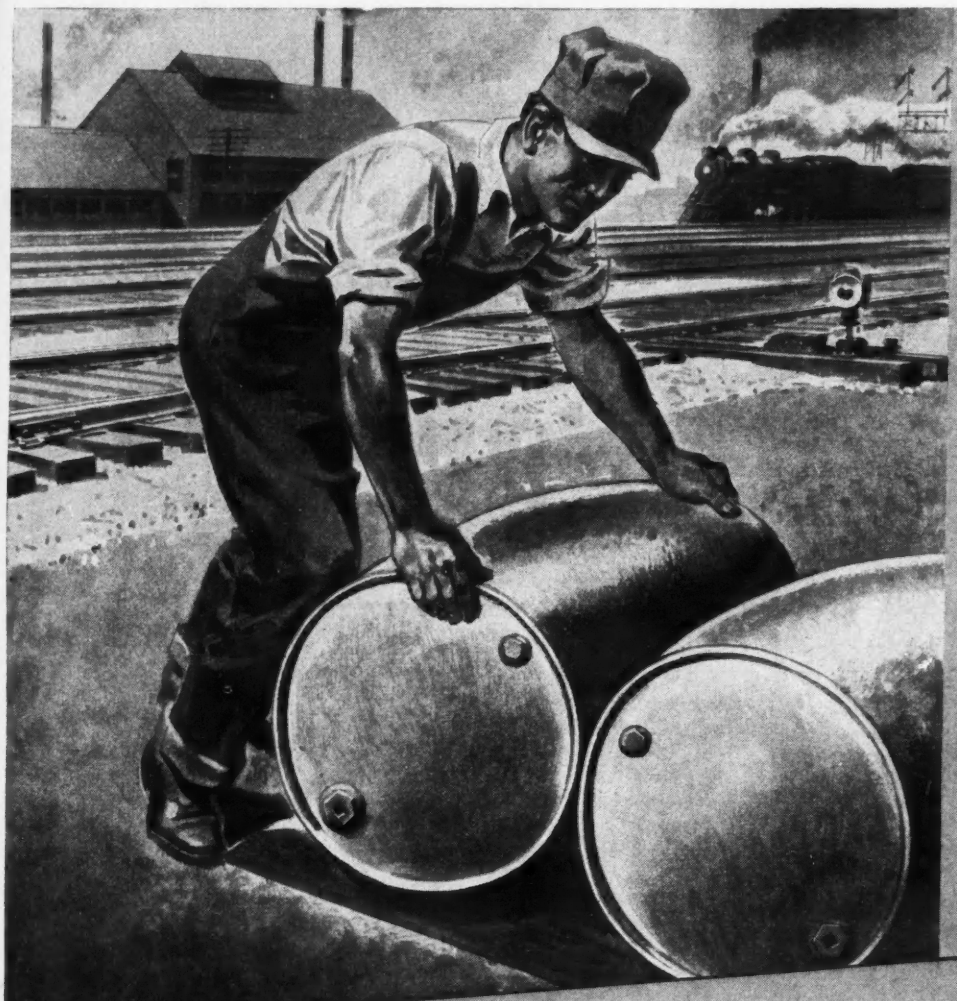
The court, while pointing out that actual physical or manual labor is not the test of compensable hours, nevertheless acknowledged the fact that good common sense and the general concept of work must be applied to the problem. However, compensable time does not necessarily commence from the moment of the punching "in" and "out" of the timeclock. If the payroll records and other facts show that the work starts earlier or later, timeclock records will not be considered as absolutely fixing the measurement of working hours.

The supreme court also confirmed the "de Minimus" rule, holding that only if the employee is required to give up a substantial amount of time, will such nonworking time be considered as compensable hours. Hence, a trifling or negligible amount of preliminary or preparatory time need not be counted.

This de Minimus rule, as confirmed by the recent supreme court decision, has been applied to the coverage question, as well as to these various nonmanual periods of time, such as walking, preliminary activities, and the like. "These situations must be viewed in light of industrial relations," said the court, "and if this nonmanual and nonproductive minimum of time is insignificant and insubstantial or negligible, it may be disregarded."

In this connection, Judge Burton, in his dissenting opinion, took the position that the workweek or working hours should be viewed in the general industry sense as covering the period from "starting to quitting time" or from "whistle to whistle." To his view, the majority decision of the court would only serve to cause innumerable and unnecessary minor controversies between employers and employees and not make for industrial peace.

Among other, miscellaneous situations of nonproductive time is that of time off because of illness. If the employee is away from the plant even if paid for the period, such period is not considered compensable hours. On the other band, if the injured or ill employee remains on the premises, the time so consumed should be included as working hours for overtime purposes. Time spent in grievance conferences is considered by the department as compensatory time.



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Obituaries

Samuel H. Ebert

Samuel H. Ebert, president of the Interstate Color Company, manufacturer of dyestuffs, New York, died of a heart ailment October 29 at the Westchester Square Hospital, The Bronx. He was sixty-nine years old.

Henry J. Irvin

Henry J. Irvin, formerly vice-president and manager of the Pittsburgh branch of the National Lead Company, died at his home in Montclair, N. J., October 25. He was fifty-six years old.

Mr. Irvin started work with the Pittsburgh branch in 1914, was elected its treasurer in 1923 and was advanced to vice-president in 1932. He was transferred to New York and named manager of metal sales in January, 1942, and two months later was appointed metal sales committee chairman.

Dr. John P. Simmons

Dr. John P. Simmons, professor of chemistry at New York University for the last twenty years, died recently at his home in Great Barrington, Mass., where he moved while on leave of absence. He was sixty-six years old. Dr. Simmons served as acting chairman of the university chemistry department in 1936 and 1937, and had been associated with the department as instructor and student for forty-six years.

Professor Joseph H. Gourley, chairman of the department of horticulture and forestry at Ohio State University, died in Wooster, Ohio, October 27, after having been stricken with coronary thrombosis on October 10. He was sixty-three years old.

Isaac Harby, supervising engineer in the Schenectady N. Y., area for the Defense Plant Corporation, a division of the Reconstruction Finance Corporation, died in Scarsdale, N. Y., October 28.

Mrs. Caroline Harloe, widow of William L. Harloe, for many years registrar at the Brooklyn College of Pharmacy, died in Brooklyn October 27.

Thomas Morrison, a director of the International Nickel Company of Canada, and a former director of the United States Steel Corporation, died at Spring Lake, N. J., October 26. He was eighty-five years old.

Brigadier General Myron R. Wood, Army Air Forces supply chief, died of a heart attack October 29 at his home in Washington, D. C. He was fifty-three years old.

Silicone Rubber Use Expansion Reported

General Electric Company chemical department, Pittsfield, Mass., has announced that improved molding and fabricating techniques developed by the company have sponsored an increasing demand for silicone rubber that will withstand a wide range of operating temperatures.

The silicone material, used primarily as gaskets for searchlights, superchargers and other electrical equipment in extruded form during war years, was said to have found wider uses in those fields, but has been extensively applied in aircraft, heat-sealing equipment, various types of lighting equipment, baking ovens, diesel engines, vacuum systems, and other equipment in both the extruded and molded forms.

The company stated that the product, which possesses heat resistance to a degree which leaves it practically unaffected by temperatures ranging from minus 55-52 degrees Fahrenheit, is expected to find wider uses at lower cost when the company's new plant at Waterford, N. Y., begins operation early next year.

Diamond Producing Water Resistant Matches

Diamond Match Company, Chicago, recently announced that production of water resistant matches for civilian use had begun. William J. Elder, manager of the Oswego, N. Y., plant said the initial production schedule had been set at about 7,500,000 matches daily, but that production will be increased to 20,000,000 matches daily as cartons become available.

Schock Joins Int'l Nickel

Robert G. Schock has joined the chemical section of the INCO nickel alloys department of the International Nickel Company, New York, as a sales engineer concentrating on brewery and distillery equipment and parts.

Trade Briefs

Hazel-Atlas Glass Company has elected Howard G. Lewis secretary, to succeed the late George S. Quay.

American Window Glass Company has elected to the board James H. Clark. He succeeds J. D. Dyer, resigned.

Barium Steel Corporation, New York, has named S. J. Jazwinski chief metallurgist of the company. He had been chief metallurgist for the K. & L. Steelfounders and Engineers, England.

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Monsanto Names Textile Chemicals Sales Staff

Monsanto Chemical Company has announced territorial assignments for salesmen in its newly organized textile chemicals department.

W. R. Battersby will cover Maine, New Hampshire and northeastern Massachusetts; T. E. Lannefeld, Rhode Island, southeastern Massachusetts and eastern Connecticut; E. S. Lamount, New York, excepting New York City, Vermont, western Massachusetts and western Connecticut; C. F. Bishop, New York City, upper Pennsylvania and upper New Jersey; E. H. McCoy, Delaware, Maryland, lower Pennsylvania and lower New Jersey; F. K. Burre, Virginia, West Virginia, North and South Carolina; R. Gow, III, Middle West, and R. N. Foster, Southern states.

Alien Property Office Selling Enemy Patents Data

OPD Washington Bureau

The Office of Alien Property of the Department of Justice is selling to American citizens publications summarizing 37,000 mechanical and electrical patents seized from enemy nationals.

Included are patents in the classifications of machinery and metal working, foods and food machinery, textiles and textile machinery, and packaging machinery and materials.

The abstracts may be purchased by sending $10 to the Office of Alien Property, Department of Justice, Washington 25, D. C., which will furnish without cost an index and guide giving a description of the abstracts and containing complete license information.

Chemical Consultants Directory Issued

The Association of Consulting Chemists and Chemical Engineers has issued the tenth edition of its classified directory of members. The contents have the usual arrangement of (1) key sheet which records the various services in which members specialize or for which they are qualified; (2) scope sheets in which the members describe their activities and interests; (3) an alphabetical index. The whole occupies 88 + XX large pages. This directory is designed to provide industrialists with a guide to the services of special scientific and technical men. It typifies the association's functioning as a clearing house for such services.

ACS Activities

—Continued from page 7

Professor John C. Bailar, jr., of the University of Illinois, has been elected chairman of the division of chemical education of the society. He succeeds Professor Laurence L. Quill, of Michigan State College. Other new officers of the division are:—Professor Edward L. Haenisch, of Villanova College, vice-chairman, and Professor C. E. White, of the University of Maryland, treasurer. Dr. Paul H. Fall, president of Hiram College, was reelected secretary.

Professor Quill, the retiring chairman, was named to the division's executive committee, as was Professor F. D. Martin, of Purdue University.

Chicago

Discovery of a new chemical compound 4,000 times as sweet as cane sugar, which promises far-reaching economies in the food, candy and beverage industries and may help end the world-wide sugar shortage, was reported by Professor Pieter Eduard Verkade of Delft Technical University, Holland, in an address to the Chicago section of the society.

The new benzene derivative, a powder-like substance produced in the form of orange crystals, is one of seven which make up the group designated chemically as the 1-alkoxy-2-amino-4-nitrobenzenes and which are characterized by sweet taste, according to Professor Verkade, who explained that other members of the group range in sweetening power from 120 to 2,000 times that of ordinary sugar.

Maryland

The Maryland section of the society was guest of the Standard Oil Company of New Jersey at a refinery tour and dinner meeting October 29. Chartered buses took members to the company's Baltimore refinery, where the two and one-half hour tour took place.

Dr. P. K. Frolich, director of the Esso research and development laboratories, and former president of the society, was the speaker at the dinner held in the Sheraton-Belvedere hotel. His topic was "Recent Progress in Hydrocarbon Chemistry."

Trade Briefs

Textile Technology Institute has appointed Dr. Woodford G. Sink to work in the field of stream sanitation.

Robert H. Shields, administrator of the marketing and production administration and president of the Commodity Credit Corporation, is to leave government service soon to become executive vice-president and general counsel for the U. S. Beet Sugar Association.

E. I. du Pont de Nemours & Co., Wilmington, Del., recently announced preparation of a booklet on nylon which became available in limited quantities upon request November 1. The booklet explains the invention, production, and care of nylon fabrics. Requests for "About Nylon" should be addressed to the promotion section of the nylon division.

Hercules Powder Company, Wilmington, Del., has prepared a new four color, non-technical, illustrated booklet. "A Trip Through Hercules Land," explaining the use of its products in twelve major industries. The industries covered are: adhesives, protective coatings, synthetic fibers, plastics, soaps and disinfectants, insecticides, rubber, ink, construction, textiles, paper and mining.

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Textile and Leather Chemicals

Feature of the sizing materials market last week was the further reduction of prices for cornstarch, dextrins and tanners corn sugar. Demand for these products continued active with production readily absorbed. Deliveries were increased by the slight improvement in tight boxcar situation. Lower prices for domestic sizing materials continued to limit interest in tapioca flour and other foreign materials. Offerings of tapioca flour from Brazil were reported easier and freer, with consumers showing little interest in that market. Production of potato starch was sold up for the balance of the year and the market was firm at current levels.

Removal of price controls on tanning materials has not improved buying interest, because of the scarcity of hides. Tanning operations continued on part time basis with additional tanneries reported shutting down.

Price controls were removed by OPA, October 31, on all types of domestic and imported skins and hides and processed leather, including calf and other leathers and all types of and cattle, kid and goat, sheepskin shoes. Price officials estimated that leather prices would rise 50 percent and an increase of from 20 to 30 percent in the price of footwear.

Producers of zinc dust ceiling prices were increased 1 cent per pound by OPA, effective October 31. Resellers are permitted their percentage markups in effect on March 31, 1946.

Chemicals

Bichromates—Active demand continued to absorb the output against current contracts. Scarcity of soda ash, it was reported, has curtailed the product to some extent and producers were unable to accept orders for export. Inquiry for export keen. Scarcity of basic materials may delay the announcement of contract prices for next year.

Sulphonated Oils—Business was reported light, owing to the scarcity of basic oils. Removal of price controls on castor and neatsfoot oils and tallow has not as yet increased available supplies of these products.

Sizing Materials

Albumen, Egg—Trading was moderate and mainly for actual requirements. Offerings were adequate to meet demand. Prices of edible and technical grades were steady at former levels. Dried egg production during September totaled 4,347,000 pounds, compared with 2,674,000 pounds a year earlier. Production consisted of 4,165,000 pounds of whole egg, 97,000 pounds of dried albumen and 85,000 pounds of dried yolk. Output of dried egg during the first nine months of 1946 totaled 107,149,000 pounds compared with 104,976,000 pounds in the same period last year. Liquid egg production in September totaled 16.958,000 pounds compared with 13,677,000 pounds in September last year, reported the Bureau of Agricultural Economics. Much smaller quantities were frozen than last year but larger quantities were used for drying.

Dextrin, Corn — Processors announced a reduction of 25c. per 100 pounds for all grades, reflecting the lower cost of corn. Demand continued urgent and production was delivered against current orders. British, gum was quoted at $6.651, canary, $6.391; dark, $6.491; white, $6.241 per 100 pounds, in paper bags, car lots.

Corn, Sugar—Prices of tanners corn sugar were reduced 25c. per 100 pounds, by processors last week. Chipped was quoted at $5.216 per 100 pounds, paper bags, car lots and $5.349 in barrels, car lots.

Egg Yolk—Production of egg yolk totaled 85,000 pounds in September, compared with 514,000 pounds during the same month last year. Demand was fairly active with supplies limited and well maintained at $1.10 to $1.15 per pound, according to quantity.

Starch, Corn—Prices were reduced 25c. per pound, for all grades last week. Consuming demand continued active and production was readily absorbed against current orders. Processors were allocating larger quantities to consumers than heretofore. Pearl, was quoted at $5.121 per 100 pounds, and powdered at $5.271 per 100 pounds, paper bags, car lots. Visible corn supply decreased 237,000 bushels to 2,472,000 bushels for the week ended October 26, against 4,810,000 bushels, a year ago, according to Chicago Board of Trade.

Starch, Potato—Consuming inquiry was reported active for prompt requirements. Offerings were light as production was said to be sold up for the balance of the year. Buyers also showed a good inquiry for early next year needs. Prices were firm and unchanged at 7.35c. to 7.60c. per pound, car lots, New York delivery.

Tapioca Flour—Brazilian market was reported easier under increased offerings for shipment and lack of demand from consumers here. Prices for shipment were lower and ranged from 5½c. to 10c. per pound, f.o.b. Brazil, depending upon quality. Sales were reported at 5½c. per pound, for low types. Arrivals totaled 1,030 bags at New York last week.

Tanning Materials

Chestnut Extract—Lifting of price ceilings has not changed quotations. Demand was light owing to the scarcity of hides. Stocks were in liberal supply and improving labor and raw material conditions indicated that by the time normal leather production is resumed, supplies of extract will be adequate to meet domestic requirements.

Mangrove Bark — Reports from Africa indicated a firmer market there with demand active for foreign destinations. Buying interest here continued quiet and the market was easy and nominal at $58 per ton, exdock, for 38 percent tannin. Arrivals totaled 1,120 bags at New York last week against previous orders.

Myrobalans—This market was easier and shipments were named at lower quotations. Whole, J1 was quoted at $46 to $47 per ton, and J2 at $42 per ton, exdock, New York. Tanners continued to show little interest in replacements. Imports were noted at 2,665 bags at New York last week and were consigned on prior contracts.

Nutgalls—Arrivals totaled 985 bags at New York last week. Market was easier and spot supplies were quoted at 44c. to 50c. per pound, depending upon quantity and seller.

Quebracho Extract — Inquiry for nearby and forward requirements was reported fairly active. Business was at a standstill because prices and procedure for exports from the Argentine have not been announced by Argentine government agencies. Arrivals totaled 17,370 bags at New York last week, against contracts booked months ago, before government control went into effect.

Valonia — Offerings for shipment were reported light and the primary market was higher. Beards for shipment were advanced to $75 per ton and cups to $60 per ton, exdock, with tanners not showing any interest in the market. Arrivals totaled 11,240 bags at New York last week and were delivered on former contracts.

Wattle Extract—Consuming inquiry was fairly active last week, but scarcity of offerings for shipment continued to restrict trading. Removal of OPA controls was expected to improve business. Imports of extract were noted at 999 bags at Boston last week, and consigned against former contracts.

Market Trends

Prices Advanced

Spruce, extract, ¼c. to ½c. per lb.
powd., ¾c. per lb.
Valonia beards, $5 per ton.
cups, $5 per ton.

Prices Reduced

Dextrin, 25c. per 100 lbs.
Corn sugar, tanners, 25c. per 100 lbs.
Myrobalans, $5 per ton.
Starch, corn, 25c. per 100 lbs.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
295.8	296.0	296.0	300.5

(For Current Prices see Page 9)

For Late Market Developments, See Page 4

OPD—11-4-1946 49

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Coaltar Chemicals

Stocks of coaltar chemicals were not in any freer supply last week and there was no indication of easement in sight. Steel production was somewhat lower at 89.4 percent, the lowest recorded in several weeks. Consuming demand for the basic chemicals was active both for home and export. Production in many items has been heavily sold ahead as far as the Fall of 1947 in some instances. The largest supplier of U.S.P. phenol advanced the price ½c. per pound for tankcars at the beginning of the month. Benzol continued available for prompt shipment and stocks of toluol and xylol were also meeting requirements. Tight conditions continued in coaltar, creosote oil, naphthalene and cresylic acid. Cresols were short and decidedly firm with some producers expressing higher views. Intermediates and dyestuffs remained tight and fully reflected the conditions prevailing in the basic coaltar products.

Steel operations for the week beginning October 28 were scheduled at 89.4 percent of ingot capacity, compared with 90.3 percent in the preceding week, according to the American Iron and Steel Institute. A month ago the indicated rate was 90.2 percent. The present schedule is equivalent to the production of 1,575,600 net tons of steel ingots and castings, compared with 1,591,400 tons in the preceding week and 1,335,200 tons for the corresponding week in 1945.

War Assets Administration through a national sales campaign is offering surplus coaltar chemicals in large quantities for immediate shipment at fixed prices. These materials are located in practically all of WAA's 33 regions and the Inter-Regional Sales Division will locate stocks. Most of the materials are available for export under Department of Commerce regulations. Included in the list are fabricating dyes in all colors and mixtures, solvents, dimethylaniline, picric acid, coaltar, pitches and rubber processing chemicals.

Production and supply figures given below, unless otherwise designated, are for tar-distillers from the Chemical Division of the United States Tariff Commission.

Basic Products

Benzol—Tar distillers production in August registered 526,022 gallons of the motor grade, compared with 502,580 gallons in July. Output of all other grades was 1,142,284 gallons in August against 1,381,563 gallons in the preceding month. There was enough material available to meet reasonable requirements on a fairly prompt basis but no sizable accumulations of stock.

Coaltar—Just about as tight as at anytime this year. Consuming demand is very strong and above the current producing level.

Cresol—Market holds a very strong position with prices varying according to the producer. The tankcar range is up ½c. a gallon making quotations for U.S.P. at 10½c. to 12¾c. a pound works. Short stocks have kept the buying situation tight.

Creosote Oil—August production amounted to 9,120,724 gallons, compared with 8,623,813 gallons in July. Producers reported no easement in buying conditions with the wood-processing industry pressing for shipments and production heavily under contract well into 1947.

Cresylic Acid—Stocks have continued exceedingly short with demand active. There have not been many arrivals of foreign acid of late and that market has tightened appreciably. Total domestic production, including coke-oven operations and tar distillation, was 2,339,110 pounds in August, compared with 2,180,642 pounds in July. August production was the largest for any month so far recorded this year.

Naphthalene—Output from tar distillation in August registered 16 177,971 pounds of crude, against 17,505,571 pounds in July. Refined production in August was 7,501,829 pounds, compared with 7,372,423 pounds in July. Heavy demand from the manufacturers of phthalic anhydride has prevented any easement in the supply of crude while the miscellaneous demand for refined has continued to exceed the current supply.

Market Trends

Prices Advanced

Cresol, U.S.P., in tankcars, ½c. per lb.
Phenol, U.S.P., ½c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
128.4	128.2	128.2	127.3

(For Current Prices see Page 9)

Phenol—An advance of ½c. a pound in tankcars by the lowest seller of U.S.P. was made on November 1. The range now extends from 10½c. to 12¾c. a pound, depending upon the seller. The supply position is exceedingly tight, with production heavily under contract for delivery over a good part of 1947. Production of U.S.P. and technical in August amounted to 14,812,191 pounds, compared with 13,492,879 pounds in July.

Toluol—Prompt shipments were made from available stocks at former prices. The supply position appeared able to meet requirements without difficulty. Production, aside from coke-oven operations in August, amounted to 1,482,622 gallons, compared with 1,050,287 gallons in July.

Xylol—Not in free supply, but in sufficient balance to meet requirements promptly. The lacquer industry is said to have been one of the largest buyers of this solvent of late.

Chicago, Nov. 1.—Call for coaltar bases has held up fairly well, with the supply moderate in most cases. The buyers are evincing considerable interest in new supplies. Benzol was quiet and firm. Ruling prices, exclusive of tax, were:—Benzol, pure, in tankcars, freight allowed, 15c. per gallon; industrial xylol, same basis, 22c.; 10-degree xylol, same basis, 29c.; 2-degree toluol, same basis, 22c.; solvent naphtha, same basis, 22c.; creosote oil, grade 1, 15½c.

Hydrogenated Solvents

Consuming demand is said to be running close enough to production to hold the market in a relatively tight condition. The stringency in phenol has kept the production of cyclohexanol and cyclohexanone down. Demand for cyclohexanone and methylcyclohexane was not urgent, and production appeared regulated to meet requirements, as the basic materials benzol and toluol could be secured without difficulty.

Coaltar Acids

Anthranilic—Continuance of short stocks has restricted trading in this market. Current production is insufficient to exceed the requirements of the regular consuming trades.

Broenner's—No improvement reported in buying conditions. Production said to be meeting essential requirements of domestic consumers but without relieving additional wants.

Fumaric—Production under pressure for shipments to manufacturers of synthetic resins and protective coatings. Supply position definitely tight.

Gamma—Conditions not unlike the other acids. Demand for dyestuffs and other regular consumers has taken output readily.

Maleic—Output has never been able to even off demand so far this year.

Coke By-Products

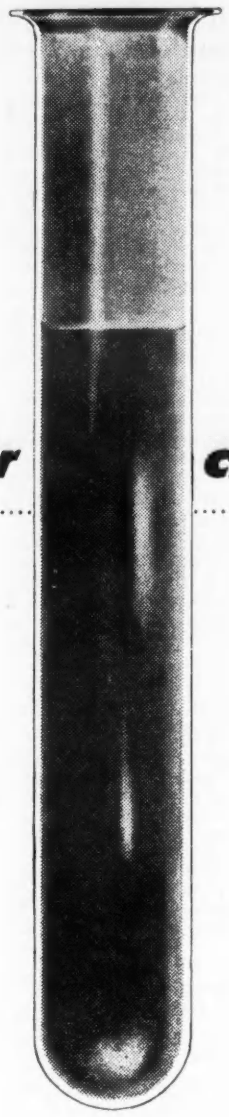
Estimates of by-product coke-oven operations in the week ended October 25 indicate the following output of by-products from that source:—

Ammonia liquor NH_3	lbs.	1,072,312
Ammonia sulphate	lbs.	27,767,250
Benzol	gals.	3,499,125
Coaltar	gals.	12,980,625
Creosote oil	gals.	722,400
Naphthalene, crude	lbs.	1,715,700
Phenol	lbs.	203,175
Toluol	gals.	699,825
Xylol	gals.	158,007

For Late Market Developments, See Page 4

KOPPERS

coal-tar chemicals



BENZOL
TOLUOL
XYLOL
PHENOL
CRESOLS
XYLENOLS
CRESYLIC ACID
FROZEN NEUTRAL OIL
TAR ACID OILS
PYRIDINE
PICOLINES
LUTIDINES
QUINOLINE
NAPHTHALENE
CREOSOTE OIL
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PHTHALIC ANHYDRIDE
AND OTHER COAL TAR CHEMICALS

K KOPPERS

KOPPERS COMPANY, INC., PITTSBURGH 19, PA.

OPD—11-4-1946 51

The inquiry for synthetic resin use is considerably ahead of current production leaving the market exceedingly tight.

Other Intermediates

Anilin—Highest monthly production for the first eight months was established in August. The total was 8,326,193 pounds, compared with 8,253 302 pounds in July. The low month was February with 6,411,349 pounds. Active demand has kept stocks down although limited quantities remained available for prompt shipment.

Anthracene—No appreciable improvement could be noted in the stock situation. The market has remained in very limited supply under the maintenance of steady demand.

Catechol—Buying interest for both home consumption and export has continued active. Stocks have been maintained at a level to permit fairly prompt shipments while former prices have been firmly sustained.

Monochlorobenzene — Difficulty in obtaining chlorine has kept output of this intermediate down of late. August production registered 22,157,017 pounds, compared with 20,887,731 pounds in the preceding month. Peak production was recorded in May at 24,713 262 pounds.

Orthometanaracresol—August production was lower at 739,052 pounds, against 1,063,308 pounds in July. The latter was the peak for the first eight months.

Phthalic Anhydride — Production, while heavy, is reported to be running behind requirements. There has been no easement in demand from the synthetic resin industry or from manufacturers of other finishes used by the automobile and trades affiliated with enamels. August production was 8,466,990 pounds, compared with 8,921,278 pounds in the preceding month.

Resorcin—Supplies are meeting requirements on a reasonably prompt basis regardless of some upsets in the availability of crude materials. Prospects favor a regular movement of the intermediate into consuming channels.

Coaltar Colors

Trade reports continue to note short stocks of direct, acid, vat and other varieties of coaltar dyestuffs. Latest official figures show that production is considerably under the level established at the beginning of the year. The continued scarcity of basic chemicals and intermediates has made it very difficult to expand output. Meanwhile, efforts are being made to meet the essential requirements of domestic consumers in preference to export trade. Production of C. I. 202 chrome blue black R was 132,323 pounds in August, compared with 85,196 pounds in July and 150,970 pounds in January. Output of C. I. 581 direct black EW was 608,816 pounds in August, 773,370 pounds in July, and 931,909 pounds in January. Production of C. I. 111. anthraquinone vat blue BCS 20 percent was 167,587 pounds in August. 226,502 pounds in July, and 185,988 pounds in January.

Trade Briefs

David C. Statler has been appointed district sales manager for the St. Louis territory by the National Can Corporation, New York. An alumnus of Cornell University and an overseas veteran of World War I, Mr. Statler has been prominent in the canning field for many years.

Howard B. Sprague, formerly head of the department of agronomy at the New Jersey Agricultural Experiment Station, will become head of agricultural research at the Texas State Research Foundation, Dallas, when he leaves the Army Air Forces January 1.

T. Addison Clohosey, purchasing agent for the lamp division of the Westinghouse Electric Corporation, Bloomfield, N. J., has retired after an affiliation of forty-five years. He was one of the founders of the National Association of Purchasing Agents and served as its president.

Richardson Scale Company, Clifton, N. J., has announced reestablishment of its Richardson bag closer production lines, discontinued due to material shortages during the war. The firm has reappointed Bemis Brothers Bag Company, St. Louis, Mo., exclusive distributor of the machine.

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Xylol, Five Degree
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Xylol, Industrial
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Metaparacresol
Cresol, Resin Grade
Cresol, Plasticizer Grade
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Sulphur Well Drilling Completed in Mexico

Mexican Gulf Sulphur Company and the American Sulphur Company, S. A., a Mexican corporation, have completed the drilling of four sulphur wells in the Province of Vera Cruz, Mexico. The wells have proved up what is apparently a very large new deposit of salt dome sulphur, similar in nature to the large deposits now being mined on the Gulf Coast of Texas and Louisiana, according to the Mexican Gulf firm.

Westvaco Completes Facilities For Soil Insecticide Output

The Westvaco Chlorine Products Corporation, New York, has completed facilities for production of hexachlorcyclohexane at its South Charleston, W. Va., plant. The company expects to attain quantity production of the material on or about January 1.

Technical data and information on the experimental results of the new product, which the company claims is superior as a soil insecticide for many infestations, may be secured through Westvaco's insecticides and fumigants division.

Freeport Sulphur Names Wingfield Gen'l Manager

E. D. Wingfield has been appointed general manager of Freeport Sulphur Company, New York. Mr. Wingfield, who has held operating, sales, and executive positions with Freeport Sulphur since 1933, has been assistant general manager for two years. He will continue to have offices in New Orleans, headquarters for the company's mines in Texas and Louisiana.

Superphosphate Production Resumed by Davison

The Davison Fertilizer Corporation, Baltimore, has resumed production of its superphosphate plant at Curtis Bay, Md., following repairs of some months by collapse of the roof of the plant which caused serious damage to machinery and other equipment.

Fertilizer Quotas Cut in Germany

OPD Washington Bur

The Military Governor in the United States zone of occupation in Germany has reported to the War Department that allocations of fertilizer in all zones have recently been scaled down in line with availabilities of indigenous and imported fertilizers.

This amounts to 82 percent of requirements for potash, 70 percent for nitrogen, and 42 percent for phosphate. The quantities allocated to the U. S. zone for the three fertilizers are 157,000 metric tons, 70,000 metric tons, and 54,000 metric tons, respectively.

Trade Briefs

Robinson Brothers Buffalo Ammonia Inc., has merged into its firm the Robinson Chemical Corporation.

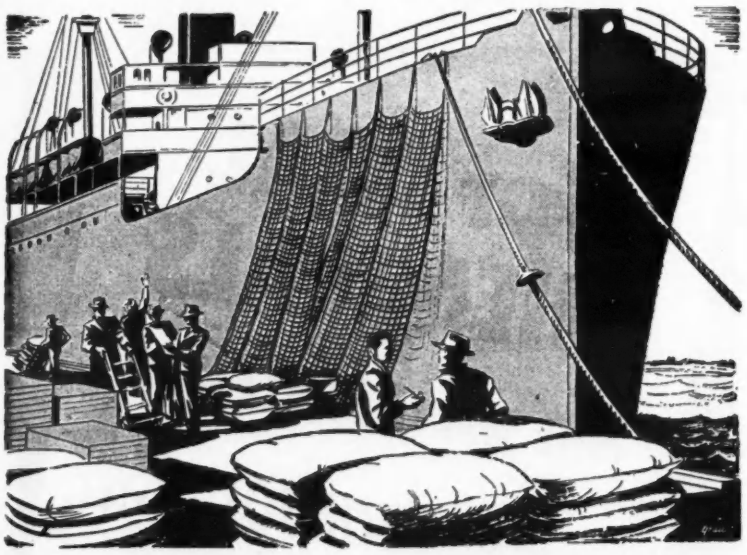
Columbia Can Company, Long Island City, N. Y., has started production of light gauge drums in its new plant.

Agro Phosphate Company, Norwalk, Calif., has obtained approval for construction of a new warehouse building in that city.

Virginia - Carolina Chemical Corporation, Richmond, Va., reelected all members of the board of directors and all officers at the annual meeting.

Permanente Metals Corporation is producing a new fertilizer composed of fused calcium magnesium phosphate and is turning out 150 tons daily.

George Werner, for twenty years connected with the Standard Wholesale Phosphate & Acid Works, Baltimore, has been admitted to the practice of law in Maryland. He passed his bar examinations last July.



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Agricultural Chemicals

Shipments against contract accounts constituted the principal movement in agricultural chemicals during the past week. Production of the basic fertilizer materials has been heavily sold ahead while demand has been greater than suppliers could comfortably handle. Stocks have remained short and the current price tendency is more upward than downward. CPA stated there are approximately 65 new mixers of fertilizer and 44 expansions of plants. To cover their requirements an allocation of 36,606 tons of potash has been made. There is also a supplementary allocation of 7,566 tons to established midwest manufacturers to meet recommendations of the Department of Agriculture with respect to geological distribution. Superphosphate has continued under pressure for shipment and so has ammonia sulphate. In the organic classification, bone meal, dried blood and tankage remained firm at recent advances. Fish meal showed signs of advancing, but the absence of trading left the market a nominal affair. In the insecticide division, the arsenicals were exceedingly firm with the price trend upward.

During the first eight months of this year, January through August, exports totaled 860,000 short tons, with a stated valuation of $16,474,000, and were 47 and 169 percent, respectively, above the tonnage and value a year ago. There were increases in almost every one of the separate materials, compared with a year earlier, according to the National Fertilizer Association.

Imports during the first eight months of this year were almost a fourth less than a year earlier in tonnage and 18 percent less in value, with the tonnage amounting to 1,009,000 short tons, valued at $27,164,000. Imports of sodium nitrate were running 306,000 tons behind those a year ago and declines were also registered in imports of ammonium phosphate, tankage, and "all other phosphates." However, calcium cyanamide was imported in greater quantities than for the same eight months in the preceding year.

Nitrogenates

Ammonia Sulphate—Demand from mixers has kept production moving rapidly and there is said to be no material backing up in first-hand supply sources. In regard to Colorado and New Mexico, an amendment to SR 14-45 states that the maximum price that may be charged shall be $40.60 per ton in bulk and $43.60 in bags delivered to any destination in Colorado and $42.30 per ton in bulk and $45.30 in bags, delivered to any destination in New Mexico effective October 28.

Bone Meal—Although domestic production has increased, packers have not been able to make much material available up to this time. There was no easement in demand for feeding purposes. Importations of 1,000 bags from Antwerp were recorded during the week.

Soda Nitrate—Market position has not changed appreciably. Domestic production has remained down while demand has continued active. Arrivals of 5,400 tons of Chilean nitrate from Valparaiso were noted during the week. Negotiations between Egypt and Chile are reported looking to an increase by the former of its imports of Chilean nitrate from 300,000 to 500,000 metric tons a year.

Tankage—Limited trading was reported at the late advance. There was enough buying interest to take stocks readily and the market retained the same tight condition recently noted. A meat strike in Argentina has temporarily cutback offerings and the best price heard was $10.25 per unit ton for November-December shipment. Importations of 267 cakes of greaves were reported from Argentina during the week.

Market Trends

Prices Advanced

None

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
72.1	72.1	72.1	71.8

(For Current Prices see Page 9)

Phosphates

Phosphate Rock—Acidulators have continued to press for shipments and the rapid absorption of current output has kept the supply situation tight. It is stated there are more inquiries in the market for home and export than can be accommodated at the present time. As before noted, the delay in securing materials has slowed down repair work at mines and has also restricted progress in the program for expanding production.

Superphosphate—Production continues heavily sold on contracts and there is relatively little stock around to meet additional requirements. Inquiry remained active with the tight supply position preventing much new business from being placed. Baltimore reports that rock shipments are not coming through in sufficient quantities to permit expansion in superphosphate production and that the market is firmly sustained at 70c. per unit-ton for normal 18 percent a.p.a.

Potashes

According to CPA, 679,338 tons of potash will be distributed for agriculture during period 8. Of this amount 36,606 tons will be made available to new fertilizer mixers and to expansion of other plants. Demand at present continued exceedingly active with the movement controlled by government regulation. Potash production in Alsace rose to 275,000 metric tons in May and to 285,000 in June from 222,300 tons in January, according to foreign chemical advices. Production in July was expected to reach 340,000 tons.

Insecticides

Market conditions in DDT remain exceedingly tight. Production is heavily under contract covering shipments well into next year and some of the largest producers state that the current supply situation is tighter than at any time this year. Production in August was placed at 4,020,189 pounds, compared with 3,573,122 pounds in the preceding month by the Chemical Division of the Tariff Commission. August showed the highest output since May. The recent advance in arsenic has placed the arsenical insecticides in a very strong position. Sulphur is one of the few materials that is in ample supply and likely to remain so. There is no easement in sight at present for the coaltar chemicals. Copper oxide is in fair supply now. The current situation in sabadella is described as critical. Carbon tetrachloride is exceedingly tight with scarcely a carlot available for immediate shipment. Pyrethrum stocks have continued rather liberal. There is a definite shortage of whale oil soap, but fish oil soaps were available.

Sulphur and Pyrites

Favorable supply conditions prevailing in sulphur revealed no indication of change. There are plenty of stocks to meet all requirements and it is up to the transportation companies to do the rest. Production of sulphur in Spain in 1945 has been estimated at 19,300 metric tons, compared with 29,576 in 1944. Shipments from Huelva Province in 1945 amounted to 18,461 tons. The Rio Tinto mines produced 13,481 tons in 1945; normally, the output is 2,000 tons monthly. The Orkla plant was closed during June-December, 1945, for lack of power and water. Sulphur mines in Almeria Province formerly produced about 500 tons per month. Pyrites has moved mostly against contract accounts. The supply outlook for Canadian material appears more favorable, with increased shipments expected after the turn of the year. Prices were unchanged.

For Late Market Developments, See Page 4

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Drugs and Fine Chemicals

Prices on bismuth subgallate and subnitrate, natural and synthetic butyl acetate and alcohol, and castor beans came to life last week and all closed the period at higher levels. Corn syrup and quicksilver were lower. Decontrol of prices was extended to soapmakers, raw materials, ethyl alcohol made from petroleum, and practically all petroleum chemicals. Furthermore, market conditions suggested higher prices to come on codeine, morphine, alcohol made from grains and molasses, and, probably, on all bismuth salts. And the news on sugar indicated the intention of the Food and Agricultural Organization of the United Nations to make the present United States shortage permanent.

Market signs held a portent for continued removal of all controls by the government and the approach of the end of the price paralysis that had held values inert from the start of control of prices by the Office of Price Administration.

For example, all bismuth salts may advance since today's price on metal is 35c. higher than the price for metal when the majority of the prevailing prices on all salts, save subgallate and subnitrate, were set.

Again, higher prices on codeine and morphine seem inevitable since the price of opium today is $8.30 per pound higher than it was when prices on derivatives were last established.

Once more, a higher schedule on alcohol made from grains and molasses is a virtual certainty. Based on production costs figured on the higher cost of production, such a movement has been due since June 30 last. Some say the development will come by November 1.

As regards bismuth subgallate and subnitrate, it sees odd to find three sellers each quoting a different price. Although other salts held unchanged, at least one producer talked enough to make the hearer understand that such prices were "old prices" and that new ones were coming.

It was a week containing much of interest. With OPA price control being shucked off speedily, and with controls on distribution of supplies being steadily peeled away, the interest current last week seemed likely to grow in nearby weeks.

Market Trends

Prices Advanced

Bismuth subgallate, 4c. per lb.
subnitrate, 11c. per lb.
Butyl alcohol, normal, fermentation, Ill. and Ind., 7/10c. per lb.
normal, synthetic, 3¾c. per lb.
Butyl acetate, normal, fermentation, Ill. and Ind., 4/10c. per lb.
normal, synthetic, 3¾c. per lb.
Castor beans, $40 per long ton.

Prices Reduced

Corn syrup, 25c. per 100 lbs.
Quicksilver, $2 per flask.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
244.6	244.7	219.6	205.2

(For Current Prices see Page 9)

Acetanilide—According to the latest release from the U. S. Tariff Commission, production of this article in August totaled 493,197 pounds. No figures for July were provided for comparative purposes, but in June output had been 624,448 pounds.

Acetone—Production in August totaled 30,016,254 pounds, comparing with the July output of 24,666,012 pounds, according to the U. S. Tariff Commission. The market contained talk last week that suggested an early and further development in prices.

Acid, Acetylsalicylic—August production dropped to 459,677 pounds from the July figure of 572,337 pounds, according to the U. S. Tariff Commission. When November production figures are prepared, they should show a sharp rise now that one of the largest producers is back in production.

Acid, Boric—Firmly maintained in all quarters and selling steadily without the presence of any substantial surplus of stocks in the hands of the leading producers.

Ac'd, Citric—Production figures on this article are not prepared for publication but such figures would prove interesting if available because such figures have a direct relation to the availability of sugar cane and its products for use in acid production.

Acid, Tartaric—Imported material was said to be offering more competition to those selling the product of domestic manufacture. The market did not appear to be too firm and conditions seemed to have turned moderately in favor of buyers. It was reported that the article has been removed from control under WFO No. 63.

Alcohol—Ethyl alcohol made by petroleum refiners has been decontrolled by OPA but this action has not included ethyl alcohol produced by the distillation of grains or molasses. The leading producers of such alcohol said last week that they were expecting a decontrol order to come around November 1 but nothing definitive has as yet been received from OPA. There is every reason to expect that all prices will be advanced substantially once the restrictions now maintained by OPA have been removed. Such an advance is long overdue; the idea of higher prices had been virtually decided upon as far back as last June.

Ammonia Benzoate—Steady absorption of the not exceptional production of this article acted to the maintenance of the very firm undertones governing the market for a long time past.

Ammonia Chloride—Fall demand was still in evidence but many of the leading distributors of the U.S.P. article have protected a major part of their Winter needs.

Argols—According to local reports last week, this article has been released from control by reason of the Department of Agriculture having exempted argols from the limitations in WFO No. 63. The local view on prices was that they were holding steady at most primary market points.

Bismuth Salts—Prices for bismuth salts last week depended on whom was asked. One of the largest factors still retained the old schedule of prices at least for the greater part of the period. Two others had different and higher views on at least two salts—subgallate and subnitrate. But, contrary to the usual experience in price checks on bismuth salts, no sellers of those two salts had prices the least resembling those of competitors. Which was probably the reason why salesmen working for the producer with the highest prices vocally wondered how in Sam Hill the boss expected them to sell subcarbonate at $2.07 per pound, subgallate at $2.10. and subnitrate at $1.54 when one competitor continued to offer subcarbonate at $1.50 and another made offerings at $1.70. Also, how could they get $2.10 for subgallate when another producer quoted $1.44 and another, $1.80. It is all quite confusing and relates to OPA price permits, or the lack thereof, and the entire situation runs directly into the fact that bismuth metal now costs $1.60 per pound in ton lots whereas its price had been $1.25 when the lowest spot schedule of prices had been first set.

Butyl Acetate—Prices on normal synthetic material were raised to 14½c. per pound in tanks; drums, car lots, 15½c.; less car lots, 16c. Also quotations on natural normal fermentation material made in Indiana and Illinois were raised to the following:—Tanks, 22.4c. per pound; tankwagons, 22.9c.; drums, car lots, 23.4c.; less car lots, 23.9c. During the week, price control was removed on secondary butyl acetate made from petroleum but other producers were not affected, apparently. They continued to quote 8½c. per pound in tanks at a late hour in the week. Decontrol of prices on normal synthetic material became effective on October 17 but its producers did not promptly advise of higher prices.

Butyl Alcohol—Synthetic butyl alcohol prices have been advanced to the basis of 14½c. per pound in tanks, drums, car lots, 15½c.; less car lots, 16c. These prices ruled all last week, yet as late as October 17 the article had been removed from price control.

For Late Market Developments, See Page 4

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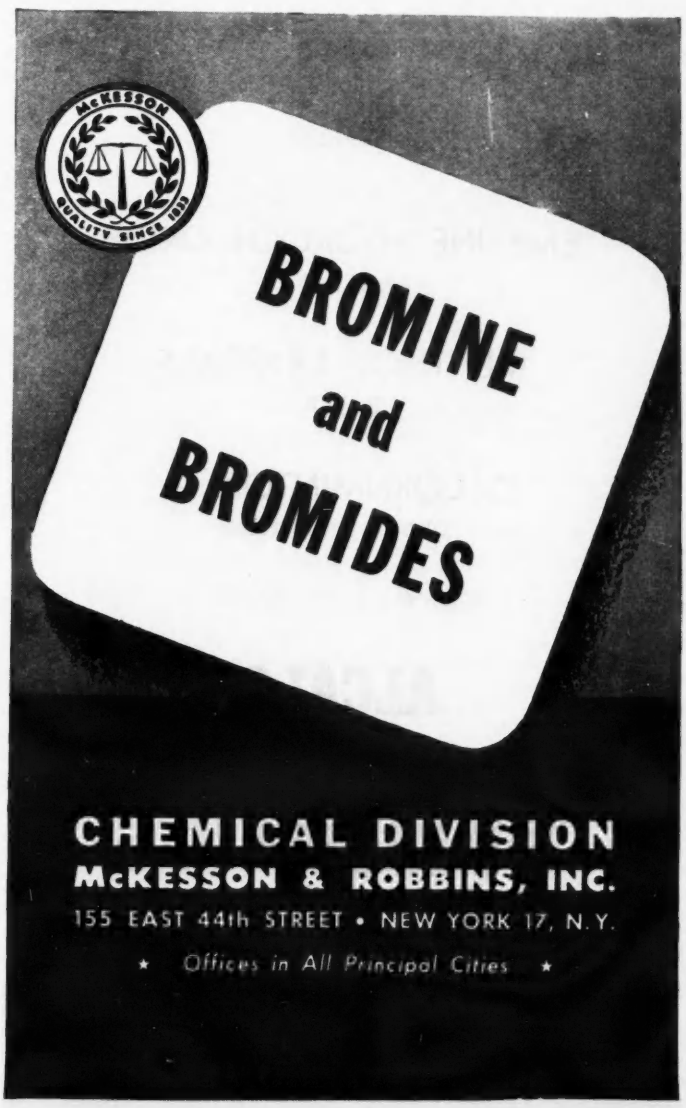

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Prices for secondary material remain unchanged at 8½c. per pound in tanks. Production in August totaled 10,250,404 pounds, which compares with 8,303,148 pounds in July, according to the U. S. Tariff Commission. Normal fermentation material made in Illinois and Indiana was higher. Tanks, 25.1c.; tankwagons, 25.6c.; drums, car lots, 26.1c.; less car lots, 26.6c.

Castor Oil—The price of castor beans jumped to $200 per long ton, f.o.b. Brazilian ports. The previous price had been $165 per long ton, c.i.f. the first United States port. And that fact, together with towering demand and far less supplies than the emergency could absorb, accounted for the fact that castor oil prices were absent from the market last week.

The arrival position of beans was bad. During the past week, 5,917 bags reached this port, a total of 887,550 pounds. This brought the total arrival since January 1 to 1,046,261 bags, or 157,247,861 pounds. This latter total compares with 1,523,494 bags, or 228,524,100 pounds arrived in the corresponding time in 1945.

Chicago, Oct. 29.—Castor oil prices are:—Cold pressed, U.S.P., 15c. per pound, returnable drums, carlots; 15¾c., drums, less than carlots; tanks, 14½c.; No. 3, extracted, 14¾c., drums, carlots; 15c., drums, less than carlots; 14c., tanks.

Cocoa Butter—The Department of Agriculture last week declared its intention to grant more freely the requested import licenses on this article. The same will apply to cocoa beans, which should result, eventually, in an increase in the available supply of cocoa butter.

Codliver Oil—The supply was short and the market strong with a tendency toward further price advances. Arrivals last week totaled 125 drums from Bergen, Norway, and 397 drums from St. John's, Newfoundland.

Dibutyl Phthalate—According to the latest data provided by the U. S. Tariff Commission, production of this article in August totaled 1,329,821 pounds, which contrasted with 1,118,944 pounds, which was the production total in July.

Ethyl Acetate—The August production of 8,121,625 pounds was below that of 9,877,090 pounds, according to the latest report of the U. S. Tariff Commission.

Ethyl Ethers—According to the U. S. Tariff Commission's latest data, August production totaled 3,585,867 pounds, which compares with 3,448,050 pounds produced in July. The Department of Commerce has released what it captioned Wartime End-Use Pattern of ethyl ether. It gives in detail the allocations of all grades during the period March 1 through June 30, 1945, and provides a good picture of how 20,276,000 pounds available were allocated by consuming industries. The table follows:—

	Pounds
Direct military and export*	6,000
Other uses	20,270,000
Explosives	10,917,000
Rubber manufacture	2,459,000
Basic medicinals	1,723,000
Ethylamine	1,152,000
Pharmaceuticals	595,000
Recovery of acetic acid	247,000
Mimeograph stencils	242,000
Dyestuffs	145,000
Ethyl centralite	144,000
Leather finishes	126,000
Adhesives and resins	113,000
Denaturants	109,000
Shoe cleaners	63,000
Meat casings	48,000
Miscellaneous uses and small orders	2,187,000

* End-use data not available.

Formaldehyde—Demand continued high and pressed production hard. Output in August, according to the U. S. Tariff Commission, totaled 38,149,391 pounds, which contrasts with July output at 38,094,994 pounds.

Glycerin—Glycerin continued to pour into the country, a success crowning the efforts of consumers to cope with the lack of sufficient domestic raw materials to make glycerin sufficient for domestic requirements. Arrivals last week were:—From Calcutta, India, 275 drums; from Santos, Brazil, 323 drums; from Bombay, India, 350 drums; and from Buenos Aires, Argentina, 230 drums. And still the market lacked sufficient glycerin. Prices remained under OPA control. Also oils for soap makers have been removed from price control. Tallow for soapers was also decontrolled. Something may soon be done about glycerin prices.

Chicago, Oct. 29.—Glycerin prices are:—C.p., tanks, 18c.; drums, c.l., 18¼c.; l.c.l., 18¾c.; high gravity, tanks, 17½c. to 18c.; drums, c.l., 17½c. to 18c.; l.c.l., 18c. to 18¾c. Chemically pure, 18c. per pound, tankcars; 18½c., drums, carlots; 18¾c., drums, less than carlots.

Menthol—More menthol is coming from Japan. And more is coming from Brazil. And probably China will add some to the pot. The menthol operator hardly knows which way events are headed but they certainly are not along the recently well-beaten paths. With Japan and China shipping; with Brazil holding a fair amount of 1946 crop menthol and expecting around 250 tons from the crop of mint to be grown there this Winter, about the only clear part of the picture is the probability that menthol users will get enough menthol. At what price, however, remains to be developed. Arrivals from Brazil totaled 1,447 cases.

Methanol—Production data for August reveal that 45,305,406 pounds of synthetic material were produced in that month, comparing with the July output at 44,841,123 pounds. Also, August production of natural methanol was 1,303,844 pounds, compared with 1,326,054 pounds as the July manufacture.

Niacin and Niacinamide—The August production totaled 74,604 pounds, according to the U. S. Tariff Commission. The last previously re-

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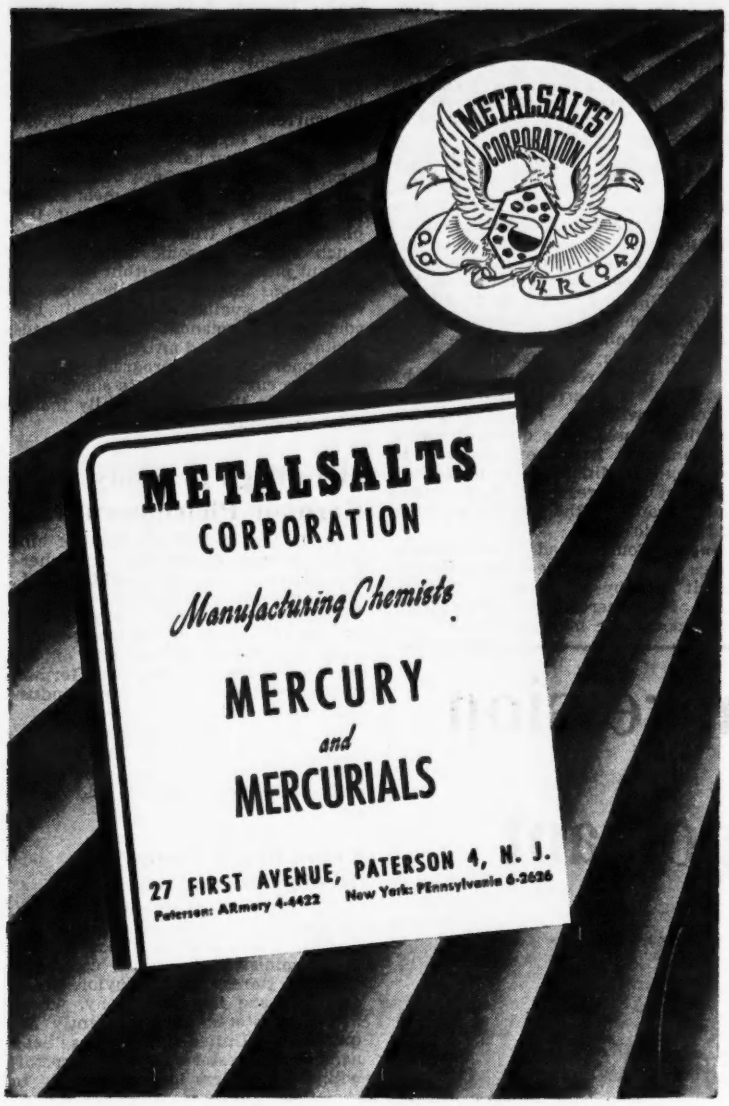

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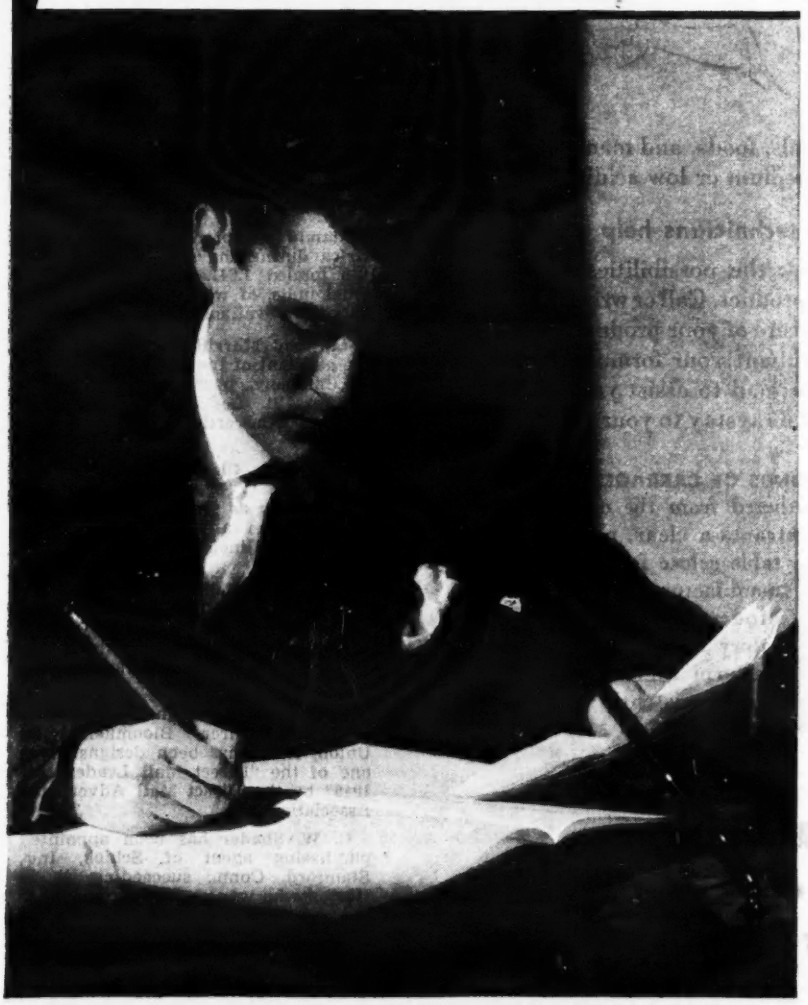

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ported output was for June at 47,069 pounds.

Penicillin — Production in August totaled 2,100,362 million units, against the July output of 2,292,287 million units. The data are from the U. S. Tariff Commission.

Phenobarbital — The U. S. Tariff Commission reports August production at 27,310 pounds, while in July it had been 38,331 pounds.

Quicksilver — More mercury came from Leghorn, Italy, last week, the total being 2,500 flasks. The spot market declined to $93 to $94 per flask under the growing competition from abroad.

San Francisco, Oct. 30.—Trading was relatively slow here this week. Very little spot metal was available. Metal was being quoted between $94 and $95 per flask, f.o.b. this city, a reduction of $1 per flask from last week.

Quinine—The lads in the Far East seem to be "prospecting" for quinine and cinchona bark with fair success. A stock of 1,500 tons of bark, equivalent to about 105 tons of quinine sulphate, have been found in Bandoeng, Java. Bandoeng is the center of the NEI quinine and bark industry. Some five million quinine tablets and 12 tons of quinine powder have been found in Malaya. These "finds" are material made, seized, and hidden by the Japs. The greater part of this material will be reprocessed before being used. The quinine factory in Bangoeng has been restored to working condition but operations have not been resumed on a normal scale because of the scarcity of labor and chemicals.

Sugar—Fourteen additional eastern states have been declared a sugar deficit area by action of the Department of Commerce. This action means that beet sugar may be shipped into the area but the Production and Marketing Division believes that because most beet sugar is retained for consumption in the West, and because rail transport is already working at capacity, beet sugar won't move East in quantities sufficient to make up for current shortages. Some 138,000 tons of raw sugar are now being unloaded in eastern harbors. Also, 13,000 tons of refined sugar are being taken out of the ships. Which means that the maritime strike is off. But the pharmaceutical trade won't have too much sugar for some time and, if present plans of FOA within the United Nations materialize, the present amount of available sugar will become the permanent United States quota by 1950. And an American who is supporting this program permanently to cut United States sugar consumption to the present totally insufficient quantity.

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McCullagh to Study German Pharmaceuticals

Dr. D. Roy McCullagh, head of biochemical research activities for Schering Corporation, Bloomfield, N. J., and associated with the department of Pharmacology at the medical school of the University of Tennessee, has been sent to Europe as one of the American experts examining German pharmaceutical and chemical industrial plants and research institutes.

Dr. McCullagh will search for additional information on German-developed vitamin, hormone, neurologic and biochemical research and products.

United-Rexall Forms New Administrative Areas

The United-Rexall Drug Company, Los Angeles, has created a new southeastern region and a Texas district for administration of its company-operated stores. H. C. Naylor, president of Lane Drug Company, whose fifty-eight stores were recently acquired by United-Rexall, has been named southeastern regional director, with headquarters in Atlanta, Ga. In the new Texas district George F. Olsen, jr., former director of training for United-Rexall, will direct operations of the eighteen Renfro Rexall drug stores in Fort Worth and four Liggett stores, three of which are in Houston and one in Beaumont. Fort Worth will be district headquarters.

Trade Briefs

Louis C. Zopf, professor of pharmacy at the University of Iowa, has been made chairman of the scientific section of the American Pharmaceutical Association.

Upjohn Company, pharmaceutical manufacturer, Kalamazoo, Mich., has made a grant of $3,000 for a fellowship in physiology at Chicago Medical School under Dr. Piero P. Foa.

Vitamin A production in South Africa during the second quarter of 1946 totaled 1,641,439,000,000 international units, of which 1,509,393,400,000 units were available for export.

Stanwood Morrill, formerly executive assistant of the Lambert Pharmacal Company, pharmaceutical manufacturer, St. Louis, has been made director of advertising and merchandising.

Edward P. Claus has returned to the University of Pittsburgh School of Pharmacy as professor of pharmacognosty after a year with the University of Illinois College of Pharmacy.

Herman A. Fellman, formerly district manager for the eastern division of Charles H. Phillips Company, division of Sterling Drug, Inc., has been appointed manager in charge of chain store sales.

Schering Corporation, pharmaceutical manufacturer, Bloomfield and Union, N. J., has been designated as one of the "Direct Mail Leaders for 1946" by the Direct Mail Advertising Association.

C. W. Shader has been appointed purchasing agent of Schick, Inc., Stamford, Conn., succeeding A. E. Horton who was recently promoted to general manager of Schick Service, Inc., a subsidiary of the company. Mr. Shader previously had been buyer for the Scovill Manufacturing Company and for the Waterbury Clock Company.

OPD—11-4-1946

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Chapin Co. Appoints Muckle Sales Head

Russell Muckle, recently a professional service representative of the Frederick Stearns & Co. division of Sterling Drug, Inc., Detroit, has been named sales manager of the Chapin Company, a subsidiary.

Mr. Muckle first became associated with Stearns in 1934. From 1934 to 1940, he was its representative in Singapore, covering Burma, Malaya, Siam and the Dutch East Indies. In 1941 he was sent to Buenos Aires to represent Stearns in South America. He enlisted in the navy in 1943, and was released last February.

Du Pont Opens New Sales Office in Atlanta

E. I. du Pont de Nemours & Co., Wilmington, Del., announce the opening of a new sales office by the organic chemicals department in Atlanta, Ga. The department is composed of the dyestuffs, fine chemicals, rubber chemicals, and petroleum divisions. The new office will distribute and service the products of the dyestuffs and fine chemicals divisions. Up to the present, all sales south of Virginia and east of Arizona have been handled from Charlotte, N. C.

D. C. Newman, who has been manager of the Charlotte office, will continue as sales manager in charge of the entire southern district with headquarters in Charlotte. A. B. Owens, formerly sales development manager of the dyestuffs division in Wilmington, will be manager of the Atlanta office. R. D. Sloan, connected with the Charlotte office for many years, will be manager of that office.

Westvaco Issues New 'Technical Bulletin'

Westvaco Chlorine Products Corporation, New York, has issued "Technical Bulletin No. 203," covering hydrogen bromide anhydrous and hydrobromic acid 48 percent aqueous. This eight-page bulletin gives properties, composition range, analyses and uses. It also cites many reactions of these products, with particular reference to the indicated applicability of hydrogen bromide anhydrous as a catalyst, bromination, esterification, condensation, alkylation, isomerization, oxidation and addition compound.

A copy may be secured from technical sales division, Westvaco Chlorine Products Corporation, 405 Lexington avenue, New York 17.

Arneson Visiting Foreign Branches of Abbott Labs

Harold Arneson, president of the Abbott Laboratories Export Company, Chicago, has left for a one month's tour of fourteen European and African countries, where he will visit branches and foreign representatives of his firm.

Little Inc. Observes Sixtieth Anniversary

Arthur D. Little, Inc., consulting industrial research laboratories, Cambridge, Mass., is celebrating its sixtieth anniversary. The laboratories were founded in 1886 as the firm of Griffin & Little.

Trade Briefs

George H. Schneller has become chief of the pharmaceutical division of the William S. Merrell Company, Cincinnati.

Crown Drug Company will retire its stock November 15 at $25 per share and accumulated dividends of 43¾ cents a share.

Pharmaco Company has started its seventh year as sponsor of the "Double or Nothing" program over Mutual Broadcasting System.

Ortho Pharmaceutical Corporation is planning to build new offices adjacent to its $1,000,000 research institute near Somerville, N. J., which is nearing completion.

H. Evert Kendig, dean of the School of Pharmacy, Temple University, has been made an honorary member of the New Hampshire Pharmaceutical Association and presented with a gold medallion in recognition of his work for a pharmacy corps in the U. S. Army.

Calif. Sales Associates Formed in Los Angeles

California Sales Associates has been organized in Los Angeles as manufacturers representatives in the vitamin and pharmaceutical field. Offices of the new firm are at 610 South Broadway, Los Angeles 14, and the telephone number is Mutual 2161. Douglas T. Crawford is manager.

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Chemical Engineers Plan Students' Symposium

Guidance for the young engineer, and description of the type of work encountered in the chemical field will be the theme of a special meeting for chemical engineering students to be held November 20 at the Belluvue-Stratford hotel, Philadelphia. The meeting is part of the thirty-ninth annual meeting of the American Institute of Chemical Engineers, which will be held in Philadelphia, November 17-20.

The program arranged especially to acquaint young engineers of the tasks before them in the chemical industry was arranged by the student chapter committee of the institute.

The special symposium on the work of the chemical engineers in industry will begin with a paper by G. C. Gester on "Process Design and Economic Studies," and wilil be followed by R. H. McBride, whose topic is "Pilot Plants and Developments." W. T. Herget will then discuss "Technical Plant Service." "Technical Sales Service" will be presented by Louis F. Loutrel, Jr., "Production" will be the subject of a talk by N. W. Clauss, and "Teaching, Academic, Industrial or Government Research" will be touched on by R. R. White.

Health Plan Approved For New York City

The Health Insurance Plan of Greater New York, under consideration since 1943, was approved recently by the New York City Board of Estimate, and will begin to function in the near future. The plan, first city-wide program for comprehensive prepaid medical care in the United States, will begin initially with the enrolling of an expected 87,500 city employees, but plans have been laid for the inclusion of employees of private firms.

Under the plan an individual will be able to obtain complete medical and surgical treatment, including preventive medicine, for a fixed fee of less than $2.50 per month. The fee for one person and two or more dependents will be less than $7.50 per month. At present the plan is restricted to persons earning not more than $5,000 annually. Cost to the individual will be reduced further by an employee group enrollment requirement under which the employer will be required to pay at least half the amount.

Chemical Workers Weekly Earnings Up

Weekly earnings of factory workers in chemical and related fields showed a light increase in August, as compared with July. A breakdown of the weekly earnings for the chemical and allied industries follows:—

Average Earnings

	Weekly		
	Aug., 1946	July, 1946	June, 1946
Chemical and allied products	$44.96	$44.67	$43.95
Ammunition	39.53	42.65	42.10
Chemicals	51.81	52.09	50.69
Cottonseed oil	30.97	29.65	29.42
Drugs, medicines, insecticides	38.95	38.42	38.26
Explosives, safety fuses	48.37	47.96	48.53
Fertilizers	35.09	34.11	32.58
Paints and varnishes	47.41	46.62	43.95
Petroleum refining	57.10	57.02	56.46
Rayon, allied products	42.62	41.69	40.09
Soaps	47.21	47.08	47.60

U.S. Revenue Returns Show Decrease

Bureau of Internal Revnue, Washington, reports taxes collected for the month of September, 1946, compared with September, 1945, included the following:—

	1946	1945
Coconut, etc., oils, processed	$770,906.85	$433,363.22
Distilled spirits, domestic, excise tax	142,776,339.43	124,443,164.67
Distilled spirits, imported, excise tax	11,738,846.11	8,508,535.91
Gasoline	40,675,282.48	38,232,055.68
Lubricating oils	6,890,144.54	5,951,697.18
Narcotics, including special taxes	43,767.20	433,363.22
Oleomargarin special taxes	238,448.01	196,070.44
Totals	3,611,030,642.54	4,121,542,518.03

Lambert to Construct $1,000,000 Laboratory

Lambert Pharmacal Company, St. Louis, which recently acquired the Harrower Laboratories, Glendale, Calif., is planning construction of a $1,000,000 research and administration building on a 23-acre site in Glendale.

Trade Briefs

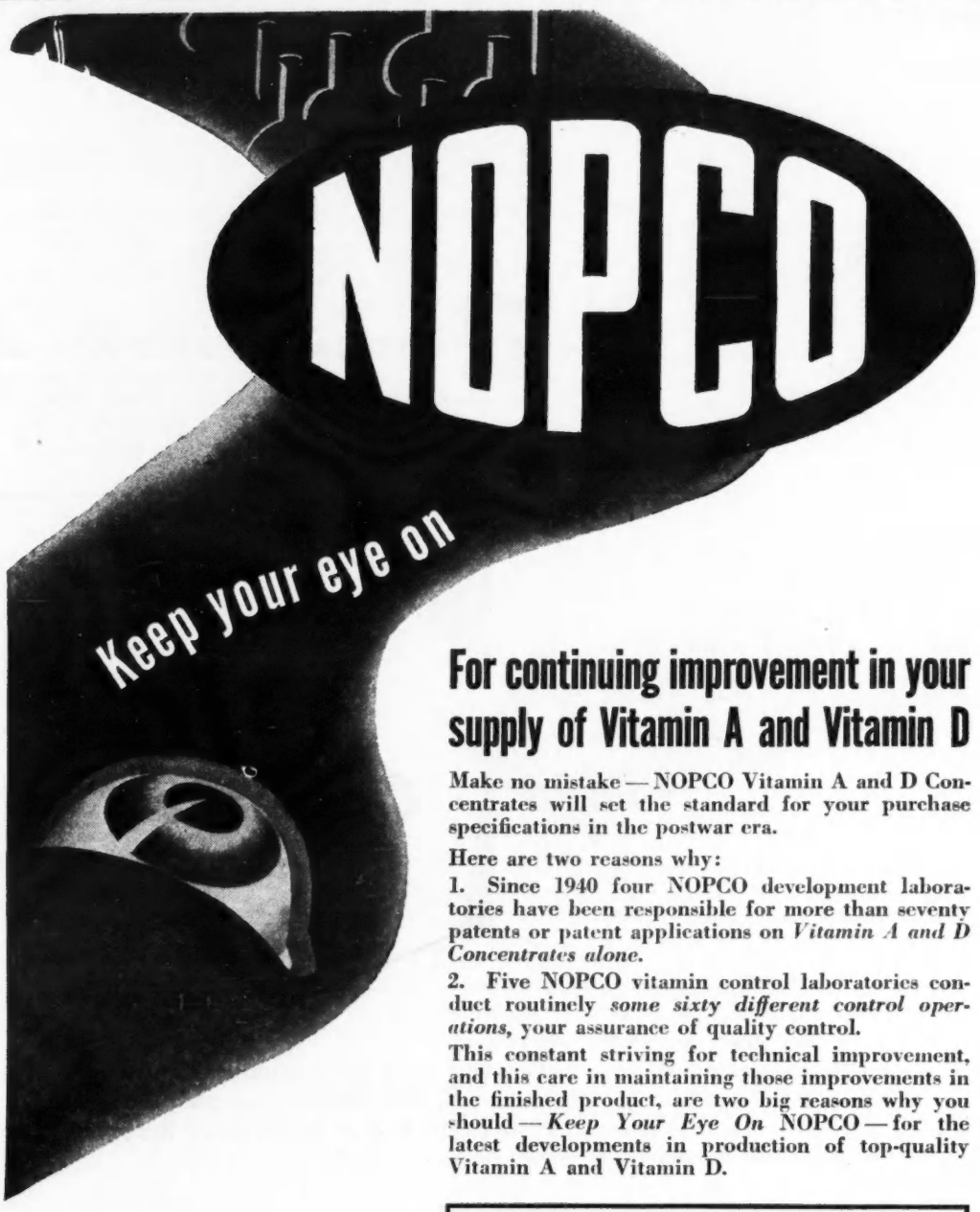
Ciba Pharmaceutical Products, Inc., has elected Clifton S. Thomson as director and general counsel.

Tretolite Company will construct a new chemical plant in Los Angelcs at a cost of $13,500.

California Sales Associates has been organized in Los Angeles as manufacturers representative in the vitamin and pharmaceutical field.

Red Rock Bottling Company, Youngstown, Ohio, last week offered publicly 199,000 shares of common stock. The stock was priced at $1.50 per share.

Oro Chemical Company, Los Angeles, has obtained Civilian Production Administration approval for the construction of a new $60,000 factory in that city.



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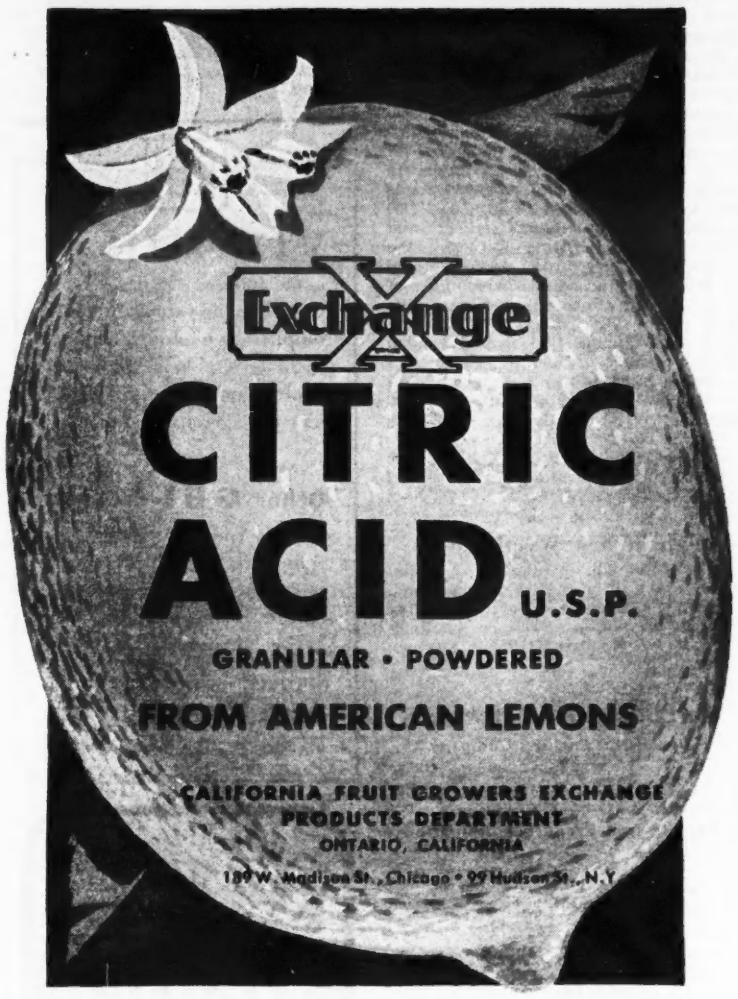

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Tetrasodium Pyrophosphate Output Data Released

Summaries of allocation data for tetrasodium pyrophosphate were recently prepared for 1944 and the first half of 1945 by the Bureau of the Census. Total allocations in 1944 amounted to 74,754,000 pounds, 2,240,000 pounds of which were allocated for direct military use. Of the remaining 72,514,000 pounds, 6,103,000 pounds were allocated to military equipment; 3,103,000 pounds to oil well drilling; 2,863,000 pounds to boiler-water treatment; 824,000 pounds to food and drugs, and 58,621,000 pounds to miscellaneous uses and small orders. Allocations in the period January-June, 1945, totaled 35,260,000 pounds, 2,134,000 pounds of which were allocated to direct military use.

Exports during that period totaled 61,000 pounds. Allocation of the remaining 33,065,000 pounds was as follows:—military equipment, 3,549,000 pounds; oil well drilling, 2,460,000; boiler - water treatment, 1,479,000 pounds; food and drugs, 470,000 pounds, and miscellaneous uses and small orders, 25,107,000.

Hough in New Wyeth Post

J. S. Hough, formerly divisional sales manager of Wyeth International Ltd., New York, has been appointed ethcal promotion manager of John Wyeth & Brother (Pty.), Durban, South Africa.

Corporation Earnings

Beech-Nut Packing Company

	1946	1945
Net income, 9 months, Sept. 30	$2,009,641	$1,565,568
Per share	4.80	3.58

Certain-teed Products Corporation

Net income, 9 mos., Sept. 30	2,759,528	694,364
Per share	1.66	.39

Climax Molybdenum Co.

	1946	1945
Net income, Sept. 30, quar.	$797,013	$746,902
Per share	.32	.30

Crown Cork & Seal

Net income, 9 mos., Sept. 30	2,085,840	2,089,096
Per share	2.77	2.83

Eagle-Picher Company

Net income, 9 mos., Aug. 31	1,113,602	1,105,941
Per share	1.25	1.24

Freeport Sulphur Company

Net income, 9 months, Sept. 30	$2,808,103	$2,564,065
Per share	3.51	3.20

Hazel-Atlas Glass Company

Net income, 12 mos., Sept. 28	5,192,433	2,810,292
Per share	2.39	1.29

Koppers Co., Inc.

Net income, 9 mos., Sept. 30	1,807,229	1,990,900
Per share	1.52	1.53

Lambert Company

Net income, Sept. 30, quar.	619,401	485,226
Per share	.83	.65

McKesson & Robbins, Inc.

Net income, 3 months, Sept. 30	$2,387,430	$1,692,425
Per share	1.33	.91

Paraffine Companies

Net income, Sept. 30, quar.	634,940	370,911
Per share	1.24	.73

Pittsburgh Plate Glass Co.

Net income, Sept. 30, quar.	5,005,813	2,925,000
Per share	.56	.33

Quaker Oats Company

Net income, year, June 30	$6,471,051	$5,401,431
Per share	7.71	6.18

Sherwin-Williams Company

Net income, year, Aug. 31	6,919,600	5,065,213
Per share	10.23	7.17

United States Smelting, Refining & Mining Company

Net income	$373,491	....
Per share	.71	....

Malaria Chemotherapy Lectures Arranged

"The Chemotherapy of Malaria" will be the subject of the Dohme lectures at the John Hopkins University School of Medicine, Baltimore, November 20 to 22. The lecturer will be N. Hamilton Fairley, Wellcome professor of tropical medicine at the University of London.

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Dr.G.M.Reed Retires From Botanic Gardens

Dr. George M. Reed, for more than twenty-five years curator of plant diseases at the Brooklyn Botanic Garden, has retired from his active duties. Upon the death of the Garden's first director, Dr. C. Stuart Gager, in August, 1943, Dr. Reed was appointed acting director of the Garden, a position which he filled until the appointment of Dr. George S. Avery, jr., as director beginning July 1, 1944.

Dr. L. M. Black, formerly of the Rockefeller Institute for Medical Research at the Department of Animal and Plant Pathology, Princeton, N. J., has been named to succeed Dr. Reed, who becomes curator emeritus.

Dr. A Gawadi, formerly associate professor of botany at Alexandria University, Egypt, has been awarded a fellowship at the Garden for research studies on growth. Miss Pauline L. Goulet has been appointed research assistant.

The Garden also announced that Dr Ralph H. Cheney, resident investigator in economic botany and formerly professor of biology and head of the department at Long Island University, has been appointed assistant professor of biology at Brooklyn College. He will retain his position on the staff of the Garden.

Colorado Univ. Names Research Coordinator

Dr. Carl W. Borgmann, director of the University of Colorado engineering experiment station, Boulder, Colo., has been appointed coordinator of research for the university by the board of regents. Dr. Borgmann's new responsibilities will include coordination of research and experimental investigations in medicine, physical sciences, social sciences, and other studies.

As director of the experiment station, he has been concerned with industrial research projects in sugar refining, natural gas pipelines, concrete waterproofing, and evaluation tests of equipment manufactured in Colorado.

Calco Names Randolph To Willow Island Post

Charles C. Randolph, jr., has been appointed assistant to D. H. W. Felch, manager of the Willow Island Works of the Calco Chemical division, American Cyanamid Company, Bound Brook, N. J., and Baxter Blitz has been named resident engineer of the works. Mr. Randolph, who had been associated with The Barrett Company, U. S. Tar Products, and the Pittsburgh Coke & Chemical Company, joined American Cyanamid following wartime service in the Navy Air Corps.

Schwartz Laboratories Acquires Plant

Schwartz Laboratories, Inc., consulting and manufacturing engineers and chemists, has purchased a large industrial building in Mount Vernon, N. Y., from the Westchester Lighting Company. The firm manufactures chemicals and pharmaceuticals and conducts chemical and biological analyses and research on foods, drugs and beverages, plans to occupy the new plant immediately.

Trade Briefs

W. F. Hewitt, jr., formerly chairman of the department of physiology at the College of Osteopathic Physicians and Surgeons, Los Angeles, has joined the research personnel of Smith, Kline & French Laboratories, pharmaceutical manufacturer, Philadelphia.

Abba A. Orlinger, resident patent counsel to Sharp & Dohme, pharmaceutical manufacturer, Philadelphia, has been elected to the board of governors of the Philadelphia Patent Law Association. He previously served on the association's legislative and judicial committee.

Klintworth Forms Own Company

The Allied Steel & Equipment Company has been organized in Irvington, N. J., by H. Fred Klintworth, for the purpose of procurement and disposal of surplus equipment in the process industries. Offices are at 1007 Springfield avenue, Irvington, and a storage yard is located at Chester, N. J.

G.E. Names Johnson To Hanford Works Post

The chemical department of the General Electric Company, Pittsfield, Mass., has appointed F. Ellis Johnson head of educational activities at its Hanford Engineer Works, Richland, Wash. He was former dean of the college of engineering at University of Missouri and at the University of Wisconsin.

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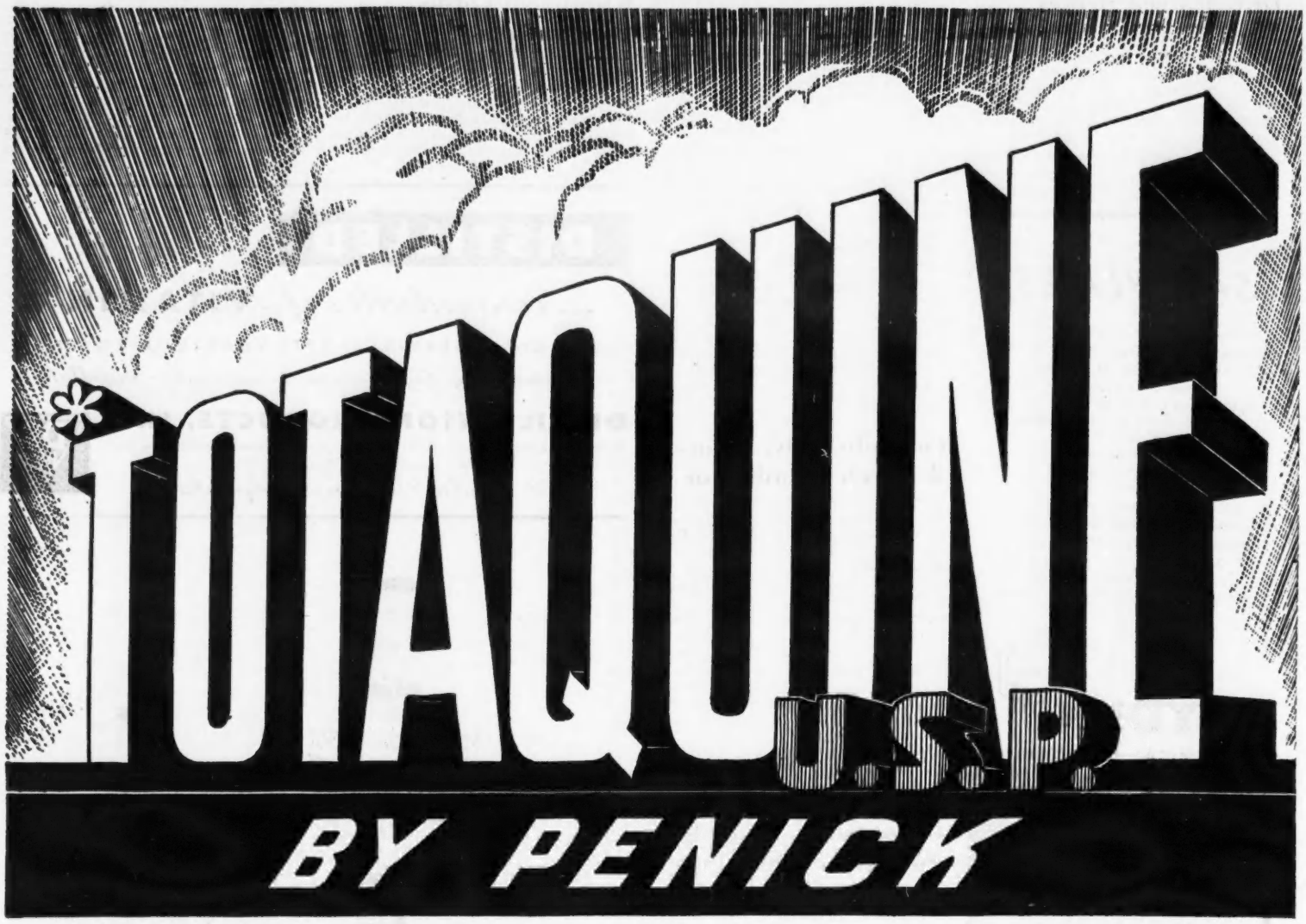

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Botanical Drugs, Spices, Gums

Seasonal botanical drugs did very well during the past week. Demand was reasonably broad and potential buyers found it not too easy promptly to cover their requirements. The medicinal drug market as a whole might be described as not subject to superior demand, but the general drift of business was toward steady increase in activity. However, it seemed probable that dealers as a whole were putting out special efforts to raise the general level of sales volume.

Condurango bark in forward position cost more money because of the rising prices caused at the source by scarcity of goods. Powdered papain on spot was advanced again, reflecting the total absence of primary market weakness and the lack of sizable unsold spot stocks. Rossed white pine bark was in especially active and seasonal request. Prices advanced. At the very beginning of the season of largest consumption, the market is in fairly tight position.

The lower prices quoted on arnica flowers meant little since there was practically no spot supply against which prompt deliveries could be drawn. Rejections of arriving goods have far exceeded the releases. Ample supplies of nux vomica encouraged an increase in spot competition and powder sold at a decline that seemed likely to run further. Wild cherry of the rossed thin green type was more reasonable in price, but some expect a tightening of values as major demand reaches a seasonable crest.

In the condimental group, black pepper was the bad actor. Practically nothing was forthcoming out of spot stocks despite the fact that grinders have been relieved of quota restrictions. France showed increasing interest in Montana oriental mustard seed and prices for spot and future delivery were advanced. Good quality Cyprus sage was cheaper. Saigon cassia advanced sharply on pressure of demand against a small spot stock and a rising replacement cost.

Balsams

Copaiba — The market remained short of supplies, firm in price, and tending toward a nominal position so far as prompt delivery balsam was concerned.

Fir—The market was generally steady. Demand held about level with its recent volume and the available stocks were none too plentiful.

Barks

Angostura—This article is not overly well supplied, but some spot goods are now available and they move in a market very firm in price, though volume is not particularly large at the moment.

Butternut—Some spot goods were offered at 44c. to 45c. per pound. The holdings were moderate in size since replacement goods have not been received in volume for a long time past.

Cascara Sagrada—The local dealers quoted the market 40c. to 45c. per pound. Reports said that there will be practically no carryover this year in the primary market. Buying has been substantial and a fair portion of the bark has gone into warehouse for ageing. Practically nothing is being offered from the Pacific Coast now.

Condurango — Some futures were offered at 25c. to 26c. per pound for a December-January arrival. Conditions in the primary market show that stocks are on the short side and a much firmer undertone rules prices there.

White Pine—The article is scarce even now when the season of heaviest consumption is getting under way. The market has moved up to 23c. to 24c. per pound and little is offered at any price.

Wild Cherry—Rossed thin green bark was in fair supply and competition has brought prices down to 20c. to 21c. per pound.

Beans

Tonka—The recent advance has been maintained and a generally firm undertone seemed to be expanding in all markets.

Vanilla—A few cases reached here last week from Marseilles, France, but in the main it is hopeless to expect any substantial movement from the French mainland to this or any other overseas country. The French quota barely cares for their domestic needs, and the needs seem more than likely to increase in the future. The spot market continued little unsold vanilla last week and the market as a whole had a strong undertone.

Berries

Cubeb—The market holds very well in most quarters, but in one direction some berries were alleged to be available as low as $1 per pound. Others' quotations do not approach that limit.

Juniper—A further but very small lot of 34 bags of this article reached here last week from Leghorn, Italy. They reached a market generally steady in undertone and fairly well supplied with good quality berries.

Flowers

Arnica—The market remained nominal, but the nominal price was lower at $1.60 per pound, being quoted on the basis of goods ultimately becoming available. Little success has attended the arrivals thus far because of their inferior quality requiring their detention by the Food and Drug Administration.

Calendula—A fair but strictly jobbing business was current last week. The available supply was conservative and first costs precluded any material shading of open quotations.

Chamomile — Good quality Hungarian flowers were not frequently in the local market. The future will depend on a good sized production this Winter in Argentina and the collection of substantial quantities in European areas.

Saffron—The market was steady but activity was mainly along jobbing lines that failed materially to affect local quotations. The latter were mainly in all quarters and for all kinds of flowers.

Gums

Aloe—During the past week, 192 crates of this gum reached here from Capetown, South Africa. Arrivals from that area have been substantial over the past month but the prices paid at the source have prevented any material change in the spot quotations to manufacturing consumers.

Asafetida — Primary market costs showed strength. Local quotations were generally firm regardless of the usually jobbing character of local requests during the past week.

Benzoin — Some importers expect that as goods move more frequently and in larger volume from Sumatra and other points, prices will develop a moderately downward tendency. At the moment, stocks were poorly distributed and insufficient to bring competition to the fore.

Karaya — Movement to the textile industry was fairly well mantained throughout the past week. Sufficiently so that prices were generally steady.

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Drugs

Condurango bark, futures, 7c. per lb.
Papain, powdered, 50c. per lb.
White pine bark, rossed, 6c. per lb.

Other Articles

Cassia, Saigon, all medium, 7½c. per lb.
4-10-4, 4c. per lb.
Pepper, black, spot, 2c. per lb.
distant futures, 2c. per lb.

Prices Reduced

Drugs

Arnica flowers, 5c. per lb.
Nux vomica, powder, 1c. per lb.
Wild cherry bark, rossed, thin green, 4c. per lb.

Other Articles

Celery seed, French, 50c. per lb.
Mustard seed, oriental, spot, ½c. per lb.
futures, 1c. per lb.
Sage, Cyprus, good, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
294.8	294.7	275.7	247.0

(For Current Prices see Page 9)

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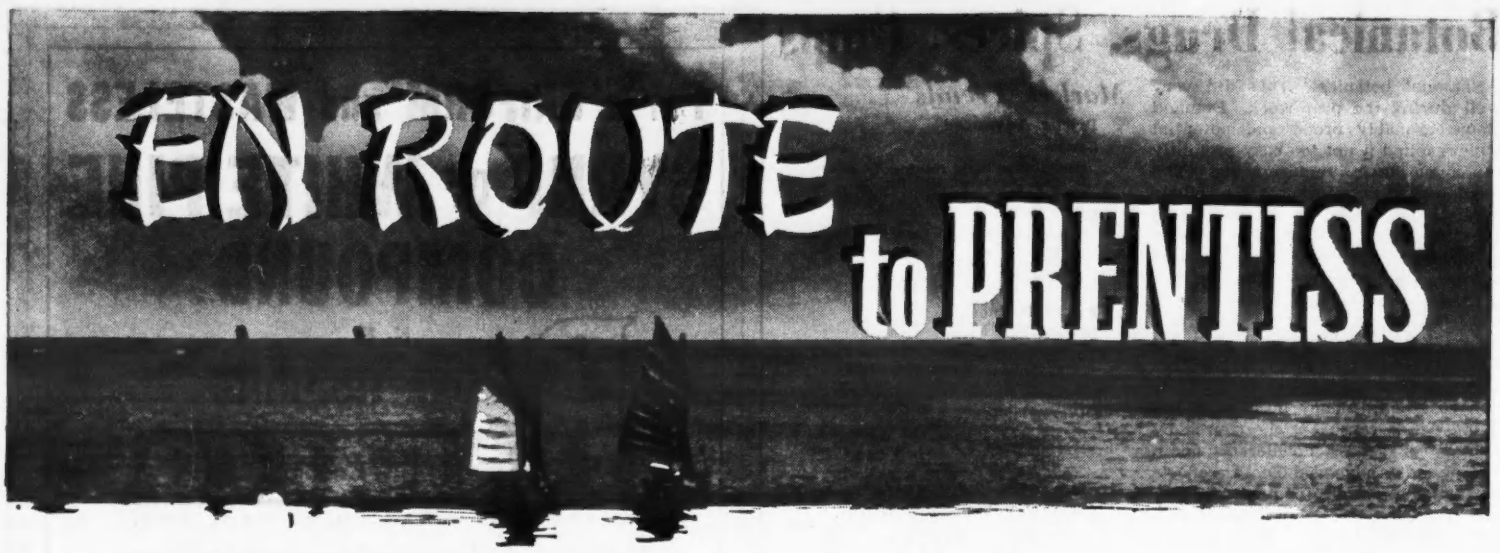

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During the period, 199 bags reached here from Bombay, India.

Locust Bean—Fair activity at steady prices was the rule. Arrivals totaled 250 parcels from Liverpool and 300 parcels from Rotterdam, Holland.

Herbs and Leaves

Belladonna — The market lacked goods sufficient to make a true market. The nominal price was $2.50 per pound but it seemed more likely that $3 could readily be obtained if goods could be delivered promptly. The chance for the shortage being relieved was remote.

Henbane — During the period just ended, 5 bales reached here from Beyrouth, Lebanon. The reserves are rising slowly but manufacturing requirements take freely of arriving goods.

Henna—Stocks of this article were increased 210 bags by an arrival from Bombay, India. Prices in all primary markets are such that the local values were generally very firm.

Laurel—From Izner came 451 bales and from Leghorn, 90 bales during the past week. Local prices lacked new developments, being generally on the steady side and prevailing without accompanying competition between local holders.

Sage—Some good quality Cyprus leaves have been released and last week were available at the lower price of 18c. to 18½c. per pound.

Senna—Cables showed prices to be well maintained in India and the strength there was reflected in well maintained spot quotations. An arrival of 482 bales from Bombay, India, was reported.

Miscellaneous

Areca Nuts — No further rise in prices was reported nor did any further extension of the upward movement appear to be due soon. Demand tended to level out the recent trend of values.

Cantharides—Not much activity in the market was reported last week and the growing competition among local holders continued to be in evidence.

Lycopodium — Stocks were on the short side and most quotations had a deal of nominal significance last week.

Nux Vomica—The market has become rather increasingly competitive and powder was shaded to 12c. to 13c. per pound during the past week. An arrival of 400 bags from Cochin was noted.

Papain—Quotations were higher at $5.75 to $6 per pound and not much material was available at the inside figure which, late in the period, was subject to confirmation. An arrival of 20 parcels from Colombo was reported.

Roots

Aletris—The supply is short and will remain short throughout the consuming season. Another collection-year must pass before progress back toward normal supply may be increased.

Belladonna — All quotations were nominal, since no goods were being offered in the open market. The future of prices is bound with the future of stocks, and the latter future is not encouraging at this time.

Colombo—Demand looked up moderately and prices took on added firmness without being actually advanced by the improvement in interest.

Doggrass—An importation of 20 bales from Antwerp, Belgium, was reported. The market on imported goods held very firm, since reserves were definitely conservative in all directions.

Ladyslipper — Collections were unsatisfactory last Summer and the market generally continued to hold a strong position at relatively high price levels.

Pareira Brava—From Santos, Brazil, came 10 bales of this not overly plentiful botanical. Dealers reported only moderate demand last week.

Seeds

Anise — Cyprus seed, recently unavailable on the spot, was again offered last week, the price being 45½c. to 46c. per pound and very firm thereat. Mexican seed was purely nominal on spot at 49½c. per pound.

Caraway—Dutch seed reached here from Holland to the extent of 100 bags last week. And there were plenty of other varieties of this seed available on spot under moderately competitive conditions.

Cardamom — Cables continued to

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R Aloes, Barbadoes	8 ounces
Black hellebore extract	2 ounces
Myrrh	2 ounces
Canella	1 ounce
Ginger	1 ounce
Soap	2 ounces
Iron sulphate, dried	2 ounces, 1½ drams

Combine ingredients with sufficient water to form a mass. Divide into pills of 2½ grains each.

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Corporation Income and Taxes in 1943

OPD Washington Bureau

The latest compilation of the Treasury Department of data on corporation earnings, costs, incomes, taxes, and other fiscal matters in 1943, based on returns from 420,521 active concerns, shows aggregate sales of $200,619,014,000, total receipts of $249,772,493,000, total deductions of $221,646,042,000, net incomes of $27,819,245,000, and total Federal taxes of $15,925,582,000.

Detailed data for the chemical and petroleum and related industries are as follows:—

	Chemicals and allied products	Petroleum and coal products	Crude petroleum and natural gas production
Number of returns	6,242	482	3,762
Receipts—			
Gross sales	$8,494,103,000	$7,861,247,000	$481,346,000
Gross receipts from operations	84,176,000	548,126,000	165,310,000
Interest on government obligations (less amortizable bond premium), wholly taxable	4,419,000	2,362,000	427,000
Subject to declared value excess-profits tax and surtax	1,232,000	601,000	227,000
Subject to surtax only	161,000	70,000	2,000
Wholly tax-exempt	1,399,000	874,000	272,000
Other interest	8,036,000	13,227,000	2,459,000
Rents and royalties	25,702,000	52,356,000	12,302,000
Net capital gain	3,594,000	17,967,000	23,541,000
Net gain, sales other than capital assets	453,000	319,000	2,391,000
Dividends, domestic corporations	59,856,000	75,993,000	8,445,000
Dividends, foreign corporations	6,967,000	16,352,000	54,000
Other receipts	36,020,000	61,789,000	8,225,000
Total compiled receipts	$8,726,137,000	$8,651,284,000	$705,000,000
Deductions—			
Cost of goods sold	5,707,717,000	5,629,481,000	207,283,000
Cost of operations	23,372,000	214,182,000	105,595,000
Compensation of officers	109,990,000	20,229,000	17,635,000
Rent paid on business property	25,607,000	73,544,000	7,325,000
Repairs	107,107,000	132,007,000	4,135,000
Bad debts	11,676,000	6,352,000	2,687,000
Interest paid	19,071,000	63,830,000	12,816,000
Taxes paid	134,105,000	233,551,000	26,014,000
Contributions or gifts	6,541,000	3,124,000	454,000
Depreciation	170,292,000	320,623,000	57,490,000
Depletion	10,934,000	261,603,000	94,480,000
Amortization	54,025,000	48,301,000	1,101,000
Net loss, sales other than capital assets	12,503,000	6,935,000	2,901,000
Other deductions	1,070,058,000	857,343,000	89,836,000
Total compiled deductions	$7,462,998,000	$7,891,107,000	$629,753,000
Compiled net profit or net loss	1,263,140,000	760,177,000	75,247,000
Net income or deficit	1,261,580,000	759,233,000	74,974,000
Net operating loss deduction	3,011,000	8,510,000	2,797,000
Income subject to excess profits tax	605,360,000	94,863,000	10,031,000
Income tax	240,790,000	233,888,000	26,441,000
Declared value excess-profits tax	3,620,000	1,632,000	206,000
Excess profits tax	486,308,000	76,728,000	7,984,000
Total tax	$730,719,000	$312,248,000	$34,631,000
Compiled net profit less total tax	532,421,000	447,929,000	40,616,000
Dividends paid—			
Cash and assets other than own stock	321,310,000	318,446,000	64,971,000
Corporation's own stock	6,625,000	11,088,000	4,967,000

stress firm prices in India on the basis of the recent advance. Spot quotations were in similar position. Arrivals were 139 bags from Cochin.

Celery—Another jag of French seed reached this market last week, being a matter of 78 bags. Also, 1,626 bags reached here from Karachi, India.

Coriander—An importation of 959 bags from Buenos Aires, Argentina, was noted last week. The entire group was steady. Demand was expected to broaden with the greater availability of meat.

Cumin—Demand and supply were at variance, the former exceeding the latter in some instances. An arrival of 600 bags from Rotterdam, Holland, and 335 bags from Beyrouth, Lebanon, was reported.

Flea—Stocks of blonde seed from India were improved by the arrival of 326 bags from Bombay. No further quantities of French seed were within immediate sight.

Mustard—Montana oriental seed was shaded to 11½c. to 12c. per pound, but French interest was increasing. The same variety in future delivery position was down to 7½c. to 8c.

Poppy—Arrivals were 800 bags from Rotterdam, Holland, and 300 bags from Sweden. The market held routine activity only.

Spices

Cassia—All medium Saigon cassia was sharply advanced to 45c. to 46c. per pound, and the same variety afloat was also so quoted. The 4-10-4 variety was up to 44c. to 45c.

Nutmegs—West Indian nutmegs for future arrival were easier and lower at 75c. to 80c. per pound.

Paprika—The sole change in prices was an advance in good quality Portuguese material to the basis of 40c. to 41c. per pound.

Pepper—Prices for black pepper advanced to 82c. to 84c. per pound. Distant future were up to 55c. to 57c. Arrivals included 400 bags from Cochin, 65 bags from Point Limon and 100 bags from Rotterdam. Also, 86 bags of white pepper from Rotterdam, Holland.

Markets at Other Centers

Los Angeles, Oct. 30.—Business in botanical drugs and spices was slow here this week. Short supplies limited trading. However, the call remained active. Ruling prices are:—

Marjoram—French type, 35c. per pound in dried form.

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Essential Oils, Other Aromatics

Market activity was moderately quiet last week in reflection of the persistent shortages in consuming industries. Imports were below the level of recent weeks, and prices in general held to the high point they have maintained for months.

Prices in the market were held at the high levels in force for many months and further increases were noted in West Indian bay oil, bois de rose, hemlock, and spruce. Lowered prices were quoted in bitter almond, Chinese anise, palmarosa, and Haitian vetiver.

The inability of confectioners, bakers, soap manufacturers, and cosmetic producers to obtain sizable quantities of materials, other than essential oils and derivatives used in their manufacturing processes, limited buying in the essential oil industry last week and was materially responsible for the quiet tone of the market. It was believed, however, that cosmetic and toiletry manufacturers curtailed their buying as a result of fairly adequate inventories of scenting materials.

Arrival of essential oils during the week fell below the level attained late in the summer and it was attributed to the few sailings which occurred during the widespread maritime strike. It was felt that the limited imports did not reflect a sudden decline in stocks at foreign markets, and it was assumed that next month would show an improvement in essential oil arrivals.

Market Trends

Prices Reduced

Bay, W. I., 50-55%, cns., 10c. per lb.
Bois de rose, Brazil, cns., 10c. per lb.
Hemlock, cns., 5c. per lb.
Spruce, cns., 5c. per lb.

Prices Advanced

Almond, bitter, F.P.A., bots., 40c. per lb.
Anise, Chinese, dms., 10c. per lb.
Palmarosa, cns., 50c. per lb.
Vetiver, Haitian, cns., 50c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
228.5	228.5	226.8	220.8

(For Current Prices see Page 9)

Essential Oils

Almond—Market activity was at a high level last week as stocks of Italian oil continued to accumulate and buyer interest was undiminished. A downward revision in prices for bitter, F.P.A. oil was effected during the period under review as that oil was quoted in a range of $4.35 to $5 per pound, a decrease of 40c. per pound. Movement of stocks into consumer channels was reported to be well maintained.

Anise—A decrease in the price of Chinese oil was noted last week as the improving supply situation helped to sponsor increased buyer interest and stock movement. The oil was quoted in a range of $1.35 to $2.75 per pound, a reduction of 10c. per pound from the previous level. Trading continued to be primarily confined to the lower priced oils, and it was believed in some quarters that there would be further price variations in view of improving import positions.

Bay—Buyer interest in West Indian oil improved materially during the past week, and the change of attitude was reflected in the quotations which took an upward movement of 10c. per pound, establishing a range of $1.40 to $1.65 per pound. This price revision was the first noted in several months, although the firm tone of the market in recent weeks had indicated that an increase was imminent.

Bois de Rose—Although fairly large shipments of oil had been forthcoming from Brazil in recent weeks, the high cost of the oil in the primary markets necessitated an upward price trend last week as quotations were 10c. per pound higher establishing a range of $5.25 to $6 per pound. Buyer interest continued to be concentrated in the higher price oils, and manufacturers of linalool were particularly interested in obtaining large quantities so that they could begin greater production of that derivative.

Caraway—Supply in this oil continued fairly good last week, and buyer interest was slightly improved over the levels of recent weeks in the wake of price reductions effected during the previous week. Spot stocks were available in moderately large lots, and movement was a little above that noted late last month. Imports during the period under review totaled two drums from Holland.

Cinnamon — Considerable interest was aroused last week upon the arrival of three cases of bark oil from Ceylon. Bark oil has been in particularly short supply, and many dealers in the American market had been forced to withdraw quotations in the face of depleted stocks and indefinite future availability. Prices held at the previous levels in a range of $32 to $41 per pound.

Citronella—Trading last week continued at the moderately high levels maintained during recent weeks, and imports continued to arrive in fairly large quantities to add to the gradually improved stocks in the American market. Imports last week included eight drums from Guatemala and seventy-seven drums from Honduras. Prices held steady although it was reported that there was a tendency to firm.

Hemlock—An upward revision of prices in this market was noted last week as the oil was quoted 5c. per pound higher in a range of $2.65 to $2.75 per pound. Market activity was only moderate, bordering on routine.

Lavender—Buyer interest was undergoing a gradual improvement last week as the supply situation was approaching a better position. Prices held steady at the levels which have been in effect for several weeks, and it was reported that movement of stocks to consumers was fairly good. Imports during the period under review totaled three drums from France.

Lemongrass—The import situation in this oil continued to improve last week as it had been doing for several weeks previous. There was, nevertheless, a persistent shortage as buyer interest outstripped stocks by a great margin. Prices were held steady at the previous levels, with a slight tendency to firm. Citral production was curtailed due to the lack of sufficient lemongrass oil and the high cost at primary markets made the production of the derivative prohibitively expensive. Imports during the period under review totaled eighty-six drums from India.

Mace—The market activity last week was thoroughly retarded by the acute shortage of material, and few dealers had any stocks. Prices in the American market were firm at the previous levels, and the oil was quoted in a range of $6.75 to $7.50 per pound.

Mandarin—It was reported that stocks of oil were readily available at Brazilian sources last week, and eight cases arrived in the American market from that country. Buyer interest was moderately good, and prices were fairly steady at the lower quotation effected several weeks earlier.

Nutmeg—Demand exceeded supply by a great margin last week as stock shortages curtailed trading to a very low point. The gravity of the supply situation tended to firm prices, although no increases were reported. The oil was quoted in a range of $6.75 to $7.50 per pound. The arrival of a few cases of oil from the Windward Islands during the previous week was followed by adverse reports concerning its quality. As usual, domestic consumers will have to depend on the distillers of nutmegs in this country.

Ocotea Cymbarum—In spite of persistent shortages, buyer interest was undiminished last week and showed little inclination to lessen in the future. Prices were firming in reflection of the situation both in the American and Brazilian markets, and, although no increases were reported during the period under review, it was anticipated that upward revisions would eventually be necessitated unless there were immediate improvement both in price and availability at the source. Imports continued to filter into the United States, but the regularity of arrival did not sponsor optimism in view of the limited quantities making up the shipments. Imports last week totaled thirty drums from Brazil, less

For Late Market Developments, See Page 4

than half the number reported to have arrived during the previous week.

Palmarosa—Acute shortages continued to hamper trading in this market last week, although buyer interest was relatively active. The 50c. per pound increase reported a month ago was withdrawn last week, and the oil was offered in a range of $8.50 to $9.50 per pound once again. There were no imports reported during the period under review.

Peppermint—The market was in a slightly improved position last week as there was a little trading carried on for small quantities. Generally the position of the market was the same, however, as many dealers maintained a withdrawn position. Consumers were gradually employing substitute oils in their processes, and buyer interest was relatively low as a result. Inquiries at the sources disclosed that there was some oil available, but the prices were of a nature which made dealers distinterested.

Sandalwood—The range for Mysore, N.F., oil was further widened last week as prices as high as $19 per pound were quoted. Shortages were acute, and many dealers had withdrawn from the market altogether since they had absolutely no oil available. Buyer interest was constant, and as small stocks moved into the American market they were immediately seized upon by eager buyers.

Spearmint — There was relatively little change in this market last week as the majority of dealers had no oil to offer and were maintaining the withdrawn position which they assumed on the heels of the decontrol of mint oils and in the face of the soaring prices. There was a widespread movement on the part of consumers to other flavoring oils, and activity in the market was practically at a standstill. Some oil was reported to be available from growers, but prices were considered prohibitive by dealers, and in view of the diminished buyer interest it was deemed advisable to avoid accumulation of any stocks. There was no optimism in this market regarding future developments as there was regarding other tight oils, and it was generally agreed that the market would remain dormant until the next crop had been harvested.

Spruce—It was reported last week that there had been a 5c. per pound increase in the quotations for this oil establishing a range of from $2.65 to $2.75 per pound.

Vetiver—The price for Haitian oil was reduced 50c. per pound last week as the oil was quoted in a range of $32.00 to $35.00 per pound. Bourbon was practically unobtainable, and the majority of trading was confined to Haitian oil. There were no imports reported during the period under review.

Aromatic Chemicals

The aromatic chemical market was marking time last week while awaiting the basic materials which are expected to be forthcoming soon from the plants of a principal producer who was strike-bound for four months and resumed operations during the previous week. The search for tight essential oils used in manufacturing processes in the aromatic chemical field continued without let-up and the tight situation and high costs which have been curtailing production were not materially relieved. It was felt in some quarters that future international developments would help to make oils available in larger quantities, but it was generally admitted that normal production and trading lay far in the future.

Benzaldehyde — Civilian Production Administration recently issued a report on allocations of both medicinal and technical grades of benzaldehyde for the nine-month period October 1, 1944-June 30, 1945. Annual rate of consumption during this period was approximately 3,500,000 pounds. Total allocations during the period were 2,763,000 pounds of which 6,000 pounds were exported; 1,891,000 pounds were allocated for special military use; 288,000 pounds for flavors, foods, and cosmetics; 237,000 pounds for drugs and pharmaceuticals; 162,000 pounds for dyes and dye intermediates; 81,000 pounds for photography; and 98,000 pounds for miscellaneous uses and small orders.

Trade Briefs

Lamont Corliss & Co., New York, recently announced the appointment of Leslie M. Faulds as manager of Pond's sales.

Consolidated Cosmetics and Dana Perfumes, Chicago, has named Lucille Earley and Louise Danner as special representatives.

Yardley of London, Inc., manufacturer of men's cosmetics, has leased one and one-half floors in the plant of National Pneumatic Company, Rahway, N. J., and began manufacturing and packaging operations there November 1.

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Alkyd Resins Raw Materials Shortage Told

OPD Washington Bureau

The Civilian Production Administration has been requested to advise the proper government agencies that greater quantities of various raw materials must be made available before producers can boost the lagging output of alkyd resins.

This request was made in two resolutions adopted at a recent meeting of the Alkyd Resins Industry Advisory Committee, which told CPA that production had ceased entirely in some plants within the last few weeks and had been reduced to small percentages of capacity in others because of shortages of castor oil, linseed oil, soybean oil, glycerin, phthalic anhydride, formaldehyde and butanol.

The output of these products will drop soon unless production of alkyd resins is restored, the committee predicted. Any attempt to use slower-drying substitutes would slow production and require costly re-engineering of plants, members said.

In one resolution CPA was asked to suggest to the Department of Agriculture that it take all possible steps to increase the production of linseed oil and glycerin in the interests of greater alkyd resin production.

Currently the Department of Agriculture is importing from Argentina linseed oil against the International Emergency Food Council allocation for the United States of 70,000,000 pounds. This supply was purchased at prices higher than domestic levels. How it will be distributed has not been determined, a representative of the department reported.

In a second resolution, industry members asked CPA to tell the Office of Price Administration that decontrol of alkyd resins is necessary to increase production. The resolution stated that soya bean oil, flaxseed, castor beans, and cotton seed oil already have been decontrolled, suggesting that the decontrol of other drying oils is imminent. Drying oils constitute 50 percent of the raw materials used in making alkyd resins, the resolution said, and with their decontrol, either ceiling prices or price formulas on alkyd resin would continue to block production.

Concord Chemical Buys Synthetic Wax Plant

The Concord Chemical Company, Philadelphia, has purchased a new plant in Moorestown, N. J., for the manufacture of synthetic waxes. The company also announces that for the time being it will maintain its plant at Beverly, N. J., and its offices in Philadelphia.

Texas Oil Producers Group Favors Higher Crude Tariff

The Texas Independent Producers and Royalty Owners Association, in a resolution adopted by the executive committee, has requested increased tariff on crude oil imported into the United States. The organization also voiced opposition to a Federal subsidy on production and sale of crude oil.

Standard-Vacuum Oil Adds Davis to Staff

David F. Davis has been appointed manager of public relations for the Standard-Vacuum Oil Company, with his assignment including Australasia, China, Japan, the Malay Peninsula, Netherlands East Indies, the Philippines and South and East Africa areas in which the company operates.

Edeleanu Interests Vested

All right, title, and interest of Edeleanu G.m.b.H in United States patent 2,207,693 (Erich Saegebarth) on a method of refining waxy mineral lubricating oils, and patent application 753,548 (Wolfgang Grote and Erich Saegebarth) on solvent extraction of liquid hydrocarbons, have been vested by the Alien Property Custodian.

Trade Briefs

Frederick Betz, jr., formerly with the United States Geological Survey, has been appointed assistant professor of geology at Lehigh University.

Chalmer L. Cooper, formerly with the Illinois State Geological Survey, has been named senior geologist with the United States Geological Survey and is located in the office of the director in Washington.

Laurence L. Sloss, consultant in petroleum geology and formerly associate professor of geology at Montana School of Mines, will join the faculty of Northwestern University in the second quarter as lecturer in paleontology.

National Association of Manufacturers has appointed J. E. Drew assistant to Holcombe Parkes, vice-president in charge of public relations. He was formerly assistant director of promotion for the American Gas Association.

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Petroleum Derivatives

The Office of Price Administration announced November 1 that petroleum products, which were decontrolled July 1, 1946, by Congressional action, have been interpreted to include all petroleum chemicals more than 50 percent of the volume of which is manufactured by petroleum refiners, compounders and blenders.

The petroleum chemicals automatically decontrolled retroactively effective as of July 1, 1946, included synthetic ethyl alcohol, denatured and undenatured, petroleum cresylic acid, petroleum sulfonates, petroleum sulfonic acids, phthallic anhydride from xylene, toluol, xylol, isopropyl alcohol, isopropyl acetate, secondary butyl alcohol, secondary butyl acetate, synthetic ethyl acetate, methyl ethyl ketone, methyl propyl ketone, methyl isobutyl ketone, mercaptans, acetic acid (made from petroleum hydrocarbons), acetic anhydride (made from petroleum hydrocarbons), thiopene, 3-methyl thiopene, 2-methyl thiopene, 2-acetyl thiopene (acetothienone) and tertiary butyl alcohol. Fermentation ethyl alcohol was not affected by the new interpretation.

Up to press time, inquiries throughout the industry did not reveal any revision in prices for the items freed from control by the OPA decision.

Business in the industry last week in general closely approximated that of recent weeks, with most of the derivatives being in good supply and moving well at all centers. Acute shortages persisted in petrolatums and waxes, but producers were making small gains in meeting demand, and the supply problem seemed headed for eventual solution.

Market Trends

Prices Advanced

None

Prices Reduced

Fuel oil, No. 2, N. Y. Harbor, Northern N. J., 0.2c. per gal.

(For Current Prices see Page 9)

Solvents and Diluents

Aromatic Naphthas—Supply in the majority of the derivatives was good last week and large quantities were moving to consumers on immediate delivery orders. Buyer interest was maintained at the high level which has persisted for many weeks, and there was no indication that there would be any lessening of interest and inquiry in the near future. Prices were unaffected by the lively market, but held firm at the previous levels. Toluol and xylol were in particularly good supply.

Cleaners' Naphtha—Market activity was essentially routine last week as the majority of inquiries came from seasonal consumers, and there was a slight lessening of interest from other buyers. The derivative continued in good supply and deliveries against both contract and spot orders were well maintained. Prices were not influenced by the trading, holding steady.

Lacquer Diluent—Very little change was noted in the market last week as buying interest was fairly high and moderate offerings were available. Prompt deliveries were made on both contract and spot orders, and prices held steady at the levels which have been effective for many weeks.

Mineral Spirits—Buyer interest was only routine last week although producers were making liberal offerings and guaranteeing prompt delivery. There was moderate trading at some centers and the nature of the market enabled prices to remain fairly steady at the levels which have been in force in recent weeks.

Rubber Solvent—There was no apparent retardation of market activity in this item last week as the market continued its unusually fast pace. Fairly liberal offerings were available in most centers and buyer interest was consistently high. It was reported that both spot and contract orders were being met with substantial shipments. Prices held steady at the previous levels.

Stoddard Solvent—Market activity maintained its fast pace last week as contract orders were met with substantial shipments and inquiries were increasing for spot stocks. Prices held steady at the previous levels during the period under review.

V. M. & P. Naphtha—Buyer interest and supply were both at high levels last week as the market maintained the healthy appearance it had been developing for several weeks. Movement of stocks was in good volume, and prices held steady at the previous levels.

Markets at Other Centers

Chicago—Movement of these materials, with demand good, was substantial, and the general market feeling was one of firmness. Offerings in general had been moderate.

Aromatic Naphthas—Call good, market steady.

Cleaners' Naphtha — Business fair, prices firm.

Lacquer Diluents—Interest moderate, no price change.

Mineral Spirits—Buying good, without market change.

Rubber Solvent—Call active, quotations firm.

Stoddard Solvent—Buying fair, no price change.

V.M.&P. Naphtha—Interest extensive, market holding.

Los Angeles—All solvents and diluents, with the exception of rubber solvent, continued to move in good volume.

Lighter Fractions

Butane—Supply of this derivative continued fairly good last week, as manufacturers of synthetic resins were in the market for large quantities of new material. Deliveries on previous orders were maintained at a good rate, and prices held steady at the levels which have been in force for many weeks.

Heptane — Consumer interest was improved last week, as increasing stocks and prompt delivery helped movement of spot stocks materially. Inquiry for future delivery showed a marked improvement, as buyers were assured that they would receive delivery without difficulty. Prices were firm but unchanged from the levels of recent weeks.

Hexane — The market was slightly more active in some quarters last week, as delivery on spot orders was maintained at a rapid pace and buyers developed a livelier interest in spot stocks. Inquiry for future deliveries continued to border on routine, but showed a slight increase. Prices were steady and did not vary from the levels held for many weeks.

Pentanes—Contract consumers received large shipments from producers during the period under review, and afforded the majority of activity in a particularly dull market. There was little movement of stocks aside from the contract deliveries, and prices were unaffected by the mild tone of the market.

Propane—Unusual activity continued to keep this market moving at a rapid pace last week, as industrial consumers were in the market for large quantities of fuel materials. Supply was excellent and large shipments were made both on contract and spot orders. Prices, which had been unaffected by the active market which had endured for several weeks, continued to firm.

Markets at Other Centers

Chicago—Orders have been holding up well for these products. Buyers were in the market for a fairly good amount of material on the whole, while offerings were not pressing the market down.

Butane—Call fair, market firm.

Heptane—Buying in moderate volume, no price change.

Hexane — Business good, quotations holding.

Octanes—Movement up, market steady.

Pentanes—Interest moderate, prices stable.

Propane—Fair buying, no quotation change.

Los Angeles—Buying interest in liquefied petroleum gases continued spirited. Supplies were good.

Petrolatums and Waxes

Microcrystalline Waxes—Shipments on previous orders were well maintained last week as producers were utilizing every facility in an attempt to meet the tremendous demand. Buyer interest was at a very high level and was not retarded by the fact that delivery on new orders was far behind schedule. Prices held firm at the previous levels during the period under review.

Paraffin—Spot stocks were practically unobtainable anywhere in the country last week, as supply continued to fall far short of the extremely active demand. Consumers in general recognized that producers were making every effort to meet the demand, and were patiently awaiting a better situation. Prices continued to firm, but no changes were reported during the week.

Petrolatums—Restricted supply and active demand, which have typified the market for many weeks, continued to curtail trading last week. The limited trading did not force any price increases, but prices were firming all along the line, and it was felt in some quarters that increases were imminent. There was little inclination anywhere in the trade to attempt predictions regarding the end of shortages in these items.

Fuels and Lubricants

Gasoline—The daily average production of natural gasoline and allied products increased in August, 1946, according to the Bureau of Mines. Gains occurred in all states with the exception of Illinois, Michigan, Louisiana, New Mexico, Montana and California. Stocks at plants, terminals and refineries decreased 16,519,000 gallons during the month to 291,496,000 gallons. This was 121,462,000 gallons in excess of the total held on August 31, 1945.

Gas Oil—Shipments of gas oil which arrived in the American market during the period under review included 80,167 barrels from Aruba and 66,667 barrels from Mexico.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended October 19 totaled 220,774,000 barrels according to the Bureau of Mines. Compared with the total of 221,931,000 barrels for the preceding week, this represented a decrease of 1,157,000 barrels, comprising a decrease of 1,063,000 barrels in stocks of domestic crude and a decrease of 94,000 barrels in stocks of foreign crude.

For Late Market Developments, See Page 4

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Specific gravity 60°/60°F.	.831	.881	.894
Refractive Index (20/d)	1.4655	1.4918	1.4959
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Protective Coatings Materials

Uncertainty characterized the paint market last week as price controls continued to be dropped. Towards the end of the week, an unsteady and expectant tone was witnessed. Price controls on drying oils, including linseed, oiticica, dehydrated castor, tung and fish oils, were removed last week. This brought out an urgent demand, but offerings were limited as sellers preferred to await further developments. Some scattered sales were reported to have been made in linseed oil at prices almost 100 percent above the old ceiling prices.

Return of lead workers to the mines in the country's leading lead producing plant in Missouri took place last Friday. Company officials stated that they expected to supply most of their November contracts with the remainder being delivered during the first ten days of December. Civilian Production Administration officials stated that there would be no lead allocations to newcomers in the automotive replacement battery industry in the fourth quarter of 1946.

An advance of 7/10c. per pound for natural fermentation butyl alcohol and 4/10c. per pound for natural fermentation butyl acetate was reported. Synthetic butyl alcohol and butyl acetate also were advanced a range of 3¾c. to 4¼c. per pound.

Market Trends

Prices Advanced

Alcohol, butyl, normal, ferment, Ill., Ind., prod., dms., frt. alld., 7/10c. per lb.
synthetic, dms., frt. alld., 3¾c. to 4¼c. per lb.
Butyl acetate, normal, fermentation, Ill., Ind., prod., dms., frt. alld. E. of Miss R., 4/10c. per lb.
synthetic, dms., same basis, 3¾c. to 4¼c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
155.4	155.4	154.5	140.2

(For Current Prices see Page 9)

Metallic Lead and Zinc

Lead—Either an increase in price ceilings or complete decontrol was the nucleus of talk in trade circles last week. Scarce domestic supplies and the 2c difference between maximum prices and world prices was cause enough for the many discussions held by producers advocating decontrol. An important step towards accomplishing this was the desired initial meeting proposed to be held last Friday between Office of Price Administration officials and the industry advisory committee. Although OPA officials stated that price matters would not be discussed until a later meeting was held, some producers felt that the decontrol question would enter into last Friday's discussion.

The recent strike at the country's leading lead mining plant in Missouri was declared to be settled with the lead workers agreeing to abide by the verdict of the arbitration board and return to the mines at 7 A.M. on Friday morning, Nov. 1. Although the damage to the lead industry was significant, it was not as disastrous as had first been expected. Due to foresight, the company was able to keep the loss of production down to a minimum. Company officials stated that a good percentage of the stocks contracted for November shipment would be delivered during that month, while the remainder would be shipped during the first ten days of December.

Zinc—There was little change in the zinc market with producers attributing the lack of supplies to the clinging price controls. Although many producers and consumers advocate decontrol, OPA officials are prompt to point out that heavy demand will continue for some time, and that decontrol would cause a run on the light supplies available.

Some producers are of the opinion that, for the present, the OPA should grant another ceiling price increase in order to bring the maximum price at least level with the world price of 10.25c per pound in order to foster imports of this material.

After having declined in April, May, June and July, consumption of zinc scrap by secondary smelters, distillers, chemical plants and other manufacturers increased 17 per cent to 17,750 short tons in August, according to a Bureau of Mines report. The August scrap consumption by respondents of the survey was the highest for any month of the elapsed portion of 1946. Recovery of secondary zinc totaled 11,888 tons in August, compared with 9,848 tons in July.

Pigments

Litharge—Producers reported that this commodity was almost non-existent and would continue to remain that way until price controls on the raw materials as well as the finished product were lifted. Demand was declared to be very good but producers were unable to fill requests. No price changes were reported during the past week.

Lithopone—Short supplies were again voiced in this market with little change reported over the previous week. Demand was very high and was expected to continue to remain so until sometime next year. Price ceilings, and facilities unable to produce the enormous amount of this material required, were declared to be the reasons for the short supplies.

Titanium Dioxide—Good production continued to be prevalent in this industry with enormous demand consuming all stocks being produced by the already over-worked plants.

Red Lead—Raw material shortages and price controls remained to plague this market and no new developments were recorded over the previous week. Demand and buyer inquiries continued to be good with producers not voicing an opinion as to when a beneficial change would occur in this market.

White Lead—This pigment, the most widely used in the paint industry, was again in short supply with no further production developments being reported. Demand was excellent but producers were in the position of not being able to completely satisfy all orders. It was opinioned that the only solution to this bottle-neck would be the lifting of lead ceilings.

Zinc Oxides—Demand was good in this market but once again, short supplies made it a one-sided affair. An increase in zinc oxide production for use in the paint industry continued to be desired. This, together with the recent release of drying oils from control, would be expected to increase paint production. A total of 11,513 short tons of lead-free zinc oxide was produced in August with stocks held at the end of the month aggregating 20,110 short tons according to a Bureau of Mines report. A total of 14,382 short tons of lead-free zinc oxide was shipped in August.

Dry and Chemical Colors

Bone Black—The prolonged steady demand for this commodity was again in evidence last week, with producers reporting that a backlog existed. Shortages of raw materials and high demand were given as the chief factors for this existing backlog. No price changes were reported for the period under review.

Iron Oxide—Good demand with short supply again characterized this market with the two to three month backlog continuing to exist. Supplies were being distributed equally to regular buyers. A shipment of ten casks was received from Great Britain during the past week. No price changes were reported.

Sienna Earth—Arrival in American ports of ten casks of this commodity from Italy was reported over the period under review.

Ultramarine Blue—Originating in Great Britain, a shipment consisting of eighty casks of this material was received in American ports during the past week.

Driers and Flatteners

Napthenates—No changes were witnessed in this market with good demand and adequate production maintaining a fairly level balance. Producers were keeping a wary eye on

For Late Market Developments, See Page 4

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affiliated markets as price controls continued to drop almost daily. No price changes were effected over the period under review.

Resinates—The market was unchanged over the previous week with the continued high demand immediately consuming the adequate stocks being produced. No price changes were received during last week.

Stearates—This market was in a be-muddled state of affairs with producers hoping and expecting price controls to be dropped in the near future. Some producers were withholding their stocks in the event that such a decontrol should be effected. Price controls on most raw materials that go into the making of stearates have been lifted with a resulting increase in price but with no authorized price increase on the finished product. Due to a fairly good accumulation of raw material stocks, one producer reported that he was accepting orders from new customers for immediate delivery only. This same producer held out hopes for decontrol soon and expected an increase of from 8c. to 10c. per pound if this decontrol is effected. There were no price changes reported over the period under review.

Fillers and Extenders

Asbestos—From South America, a shipment totaling 1,750 bags of this commodity was received in American ports during the past week.

Barytes—There was little change noted in this market over the previous week. Good demand and active buyer interest was noted but the disappointing note of not being able to fill all demands due to limited processing of raw materials was again noted. Producers continued to hope for an increase in processing materials in the near future.

Chalk—Arrival in home ports of 2,840 bags of precipitated and 1,000 bags of common chalk was reported during the past week. These shipments came from England.

Lacquer Materials

Butyl Acetate—Demand continued good with producers experiencing some difficulty in keeping all consumers supplied. A recent price advance for both synthetic and natural fermentation materials was effected. Natural fermentation butyl acetate produced in Illinois and Indiana was increased 4/10c. and tanks now sold for 22.4c. per pound. Synthetic butyl acetate was advanced from 3¾c. to 4¼c. per pound with prices for carlots now 15½c. per pound, less carlots 16c. per pound, tanks 14½c. per pound.

Butyl Alcohol—Demand continued high with supplies not large enough to supply all consumers. Recent price advances of 7/10c. per pound for natural fermentation and from 3¾c. to 4¼c. per pound for synthetic were effected. Prices for natural fermentation butyl alcohol produced in Illinois and Indiana were now .261 per pound for carlots, .266 per pound for less carlots, and .251 per pound for tanks. Prices for synthetic butyl alcohol were now 15½c. per pound for carlots, 16c. per pound for less carlots, and 14½c. per pound for tanks.

Varnish Gums

Gums—Sellers were breathing more easily now that the shipping strike had terminated. Good shipments of gum coming from Singapore and Maccassar were tied up at the docks during the strike but were now being unloaded and sped on their way to buyers. It is expected that spot-stocks will not be available until the drought caused by the strike has been alleviated. Although prices on Dammar gum remain high, it is expected that this and the other grades of imported gum, will undergo a price reduction as the import situation continues to get better.

Shellac—The end of the shipping strike gave new hope to shellac processors. The shellac famine caused by the strike was being dissipated by the removal of good stocks held by ships in the harbor. However, sellers report that because of the limited amount of shellac able to be bleached daily, it would take approximately a month to fill orders that are contracted for now. The market last week was easy according to one seller with prices fluctuating. Imports continued to be good with shipments from India arriving almost daily. Imports from India last week amounted to 250 bags of refuselac and 500 bags of shellac. Arrival from England of 225 bags of shellac and 500 bags of seedlac was also noted last week.

Naval Stores

Rosin—Although demand had let up and trading continued to be light, rosin prices advanced again last week. High grades remained available with low and medium grades extremely hard to obtain. One producer expressed the opinion that demand for this commodity would not increase until soap and its raw materials were decontrolled. It was hoped that the recent decontrol of fats and oils would tend to increase soap production with a resulting increased requirement for rosin. Threat of re-control was abolished as government spokesmen made it evident that agricultural products would not be re-controlled.

Savannah, Nov. 1.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted				
	Mon.	Tues.	Wed.	Thurs.	Fri.
B	$6.80	$6.80	$6.80	$6.80	$6.80
D	7.00	7.00	7.00	7.00	7.00
E	7.33	7.33	7.33	7.33	7.33
F	7.80	7.80	7.80	7.80	7.80
G	7.80	7.80	7.85	7.85	7.86
H	7.80	7.80	7.85	7.85	7.86
I	7.80	7.80	7.85	7.85	7.86
K	7.80	7.80	7.85	7.85	7.86
M	7.80	7.80	7.85	7.85	7.86
N	7.80	7.80	7.85	7.85	7.86
WG	7.90	7.90	7.90	7.90	7.90
WW	7.90	7.90	7.90	7.90	7.90
	Drums				
Sales	...	...	108	...	85
Receipts	121	202	316	38	185
Stocks	12,917	13,119	13,435	13,473	13,698

Turpentine—Last week's scarcity of turpentine did not constitute news to an industry which had been hearing this for many weeks. In an industry where demand continued to be fabulous, it was becoming discouraging to see so much business go by the board without being able to adequately supply customers. Turpentine decontrol was the major issue with sellers stating that no hope for an improvement could be held in this industry until such decontrol was achieved. But from Washington came opinions that there was no foreseeable decontrol, although an increase in turnpentine ceilings might be expected. In New York, one producer stated that scattered sellers declared they were able to locate a tank car now and then but much more infrequently than they would desire. As a result of the recent trucking strike, it was expected that turpentine supplies transported by trucks would increase approximately 1½c per gallon.

Savannah, Nov. 1.—Following is a record of the turpentine market for the week:—

	Bulk gallons—Sales.	Barrels—Receipts.	Barrels—Shipments.	Barrels—On hand.
Monday	$1.05	179	146	3,748
Tuesday	1.05	81	229	3,550
Wednesday	1.05	222	76	3,696
Thursday	1.05	61	138	3,619
Friday	1.05	111	130	3,600

Glues and Binders

Bone Glue—Arrival in American ports of 640 bags of this commodity were received last week. These shipments originated in Brazil, Chile and Belgium.

Casein—The casein market was featureless last week and it was expected that there would be no new developments until the end of November. It is hoped that at this time, the Argentine government will have formulated their export policy. Demand continued to be good but sellers were unable to satisfy consumers since only scattered stocks negotiated for some months ago, were dribbling into the country. Reported imports for last week totaled 1,611 bags from Argentina.

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Paint Output Head

Wyatt A. Miller, superintendent of the Chicago plant of the Sherwin-Williams Company, paint manufacturer, since 1940, has been appointed general manager of all Chicago manufacturing operations of the company.

Los Angeles Production Club Elects Officers

The Los Angeles Paint and Varnish Production Club recently elected Clyde Smith of Lewis Paint Products Company, president; William Ford, California Flaxseed Products Company, vice-president; Richard Savage, Old Colony Paint & Chemical Company, secretary, and William A. Gerhardt, Reichhold Chemical Company, treasurer. During the meeting, W. A. Ladd, of Columbian Carbon Company, presented movies and a lecture on electron microscope investigation of colloidal carbon.

Baltimore Paint Club Elects New Officers

D. H. Bruning, of Bruning Brothers, has been elected president of the Baltimore Paint, Varnish and Lacquer Association. Other officers elected were vice-president, M. C. Ackerman, Pittsburgh Plate Glass Company; secretary, Glenn H. Spaulding, Spencer Kellogg & Sons, and treasurer, Alfred S. Day, also of Spencer Kellogg.

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NPVLA Acquaintanceship Committee Appointed

E. V. Peters, chairman of the entertainment and reception committee for the annual convention of the National Paint, Varnish and Lacquer Association, to be held in Atlantic City, N. J., November 6-9, has announced the appointment of an acquaintanceship committee as follows:—

Mr. and Mrs. D. E. Breinig, Hoboken, N. J.; Mr. and Mrs. Garrett M. Goldberg, San Francisco, Calif.; Mr. F. R. Hodgson, Cleveland, Ohio; Mr. and Mrs. C. S. Hutchins, Pontiac, Mich.; Mr. and Mrs. Wm. H. Jarden, Philadelphia, Pa.; Mr. and Mrs. J. F. Kurfees, Louisville, Ky.; Mr. and Mrs. E. D. Konken, Houston, Tex.; Mr. and Mrs. R. W. Lindsay, Buffalo, N. Y.; Mr. and Mrs. F. C. Peters, New York, N. Y.; Mr. and Mrs. M. K. Pine, Chicago, Ill.; Mr. and Mrs. Charles Raffi, Chelsea, Mass.; Mr. and Mrs. E. W. Stewart, Minneapolis, Minn.; Mr. W. W. Vasterling, Kansas City, Mo.; Mr. and Mrs. A. W. Winstel, Cincinnati, Ohio.

Gardner Adds Color Specialist to Staff

Richard S. Hunter, formerly specialist in methods of color and gloss measurement at the National Bureau of Standards, has joined the Henry A. Gardner Laboratory, Bethesda, Md., as its chief optical engineer. His work will be devoted to the development of apparatus and techniques for measuring gloss, reflectance, color turbidity and other optical properties of materials.

N.Y. Production Club To Meet November 14

The New York Paint and Varnish Production Club will install officers for the 1946-47 season at the monthly meeting to be held November 14 at Two Park avenue. "Portrait of an Industry," a technicolor sound movie, will be shown, as well as the movies taken at the annual outing held last June.

Dow Corning Revises Resin Data Sheet

Dow Corning Corporation, Midland, Mich., has announced revision of the preliminary data sheet for "DC 2103," a thermosetting silicone resin. It was said that significant improvements in the properties of the resin, designed for use as a heat-stable bonding material for inorganic fabrics in the production of rigid electric laminates and for bonding finely divided particles, made the revision necessary.

Krieger Develops Color

Krieger Color & Chemical Company, Hollywood, Cal., recently announced the development of a new product "Poly Supra Concentrate Molding Powder Dyes." The new materials are used to color either clear or opaque molding powders giving clear and transparent color effects, and may be used with celulose acetate, polystrene, lucite, plexiglas and vinyl molding powders.

Trade Briefs

Vogue Ceramics, Inc., has purchased a pottery plant in Falls Creek, Pa., from the Jackson Vitrified Company.

Adrien S. DuBois, formerly connected with Onyx Oil & Chemical Company, is now a member of Fuld Bros., Inc., manufacturers of sanitary chemicals, Baltimore, Md.

Erle V. Daveler, vice-president and director of the New Jersey Zinc Company, has been elected a director of the Guardian Life Insurance Company of America.

Reynolds Metals Company has named Thomas A. Murphy general manager of the Phoenix, Ariz., extrusion plant recently leased from the War Assets Administration.

Protective Coatings Corporation, Belleville, N. J., has recently issued a sixteen-page brochure on its various products for the protection of packaged products in transit or storage.

Combined Enterprises Limited, Montreal, Canada, has announced the purchase of Conant Company Limited, Montreal, manufacturers of paints, enamels, varnishes, roof coatings, caulking compounds, and glazing putties, for an undisclosed amount. H. W. Conant will continue to act as general manager of the company.

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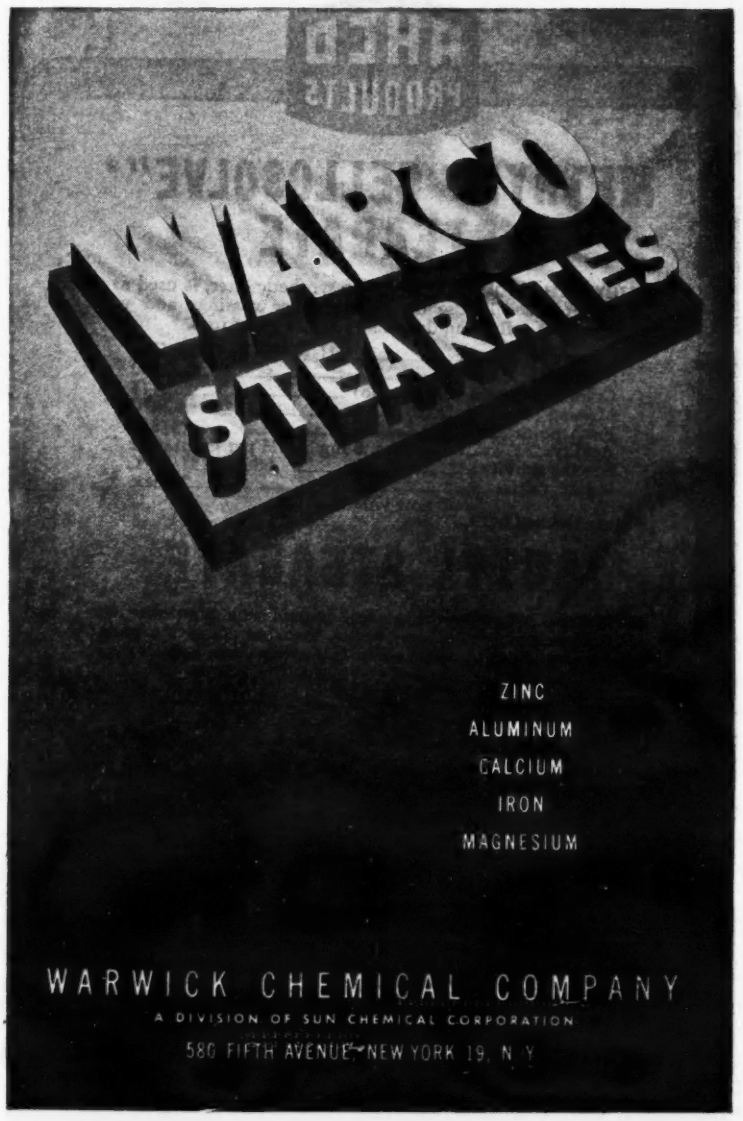

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METHYL "CELLOSOLVE"* STEARATE

METHYL "CELLOSOLVE" STEARATE, a synthetic ester, is used as a plasticizer for cellulose derivative, paper coatings and wax finishes. The following data may suggest other uses.

Chemical formula	$C_{17}H_{35}COOCH_2CH_2OCH_3$
Molecular weight	342
Color (platinum cobalt scale)	175
Melting point	22° to 24°C
	378°F
Acidity	less than .6 mg. KOH per gram ester
Specific gravity	.888 at 25°/25°C
Iodine value	2 max.

Low volatility

* Trade mark of C&CC.

BUTYL STEARATE

BUTYL STEARATE, a synthetic ester, is used as a plasticizer for cellulose and polyvinyl derivatives, also for cosmetics, paper coatings and wax finishes. The following data may suggest other uses.

Chemical formula	$C_{17}H_{35}COOC_4H_9$
Molecular weight	341
Color (platinum cobalt scale)	130
Melting point	19° to 20°C
	358°F
Acidity	less than .6 mg. KOH per gram ester
Saponication number, 171-179 mg. KOH per gram ester	
Specific gravity	.85-.86 at 20°/20°C
Iodine value	2 max.

Low volatility

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ALOE—92 crts, S B Penick & Co, Capetown—60 crts, J L Hopkins & Co, Capetown—40 crts, 39 cs, Kachurin Drug Co, Capetown

AMMONIA MURIATE—1,334 bgs, Chemical Mfg Co, Liverpool

ANTIMONY ORE—1,011 bgs, Philipp Bros, Antofagasta

ARTISTS MATERIALS—9 cs, Jung Forwarding Co, Rotterdam—11 cs, Winsor & Newton, London

ASBESTOS—750 bgs, Johns-Manville Corp, Lourenco Marques

BARBASCO ROOT—104 bls, California Spray Chemical Co, Callao

BEES WAX—71 bgs, W R Grace & Co, Valparaiso—43 blocks, R D Heins, Aden—253 blocks, Aden—91 bgs, H H Pike & Co, Santos

BILE—3 bbls, Frederick Stearns & Co, Havana—11 pkgs, Maschmeyer, Inc, Havana

BONES—708 bgs, Wessel, Duval & Co, Rio Grande

CADMIUM IODIDE—41 cs, Ayrton Metal Co, Alexandria

CAFFEINE—10 bgs, Klein & Saks International Corp, Santos

CANARY SEED—331 bgs, Hershey Co, Buenos Aires

CARAWAY OIL—2 dms, Fritzsche Bros, Rotterdam

CARDAMOM—27 cs, H A Sothern Co, Puerto Barrios—20 cs, Van Loan & Co, Tuticerin—39 bgs, C T Wilson & Co, Cochin—40 bgs, Van Loan & Co, Cochin—40 bgs, W E Martin Co, Cochin

CARNAUBA WAX—55 bgs, American Cyanamid & Chemical Corp, Santos

CASEIN—600 bgs, Bankers Trust Co, Buenos Aires—1,111 bgs, Casein Co of America, Buenos Aires

CASHEW SHELL LIQUID—404 dms, Irvington Varnish & Insulator Co, Cochin

CASTOR BEANS—1,722 bgs, Spencer Kellogg & Sons, Santos—833 bgs, Spencer Kellogg & Sons, Rio de Janeiro—3,259 bgs, Baker Castor Oil Co, Recife—103 bgs, Spencer Kellogg & Sons, Port Limon

CASTOR OIL—247 dms, Bunge Corp, Rio de Janeiro—200 dms, Balfour, Guthrie & Co, Santos

CELERY SEED—78 bgs, Joensson & Cross, Marseilles

CERAMIC COLORS—2 cks, 3 cs, B F Drakenfeld & Co, Liverpool—17 cs, J E Bernard & Co, Liverpool—3 cs, Liverpool

CETYL ALCOHOL—20 cs, Orbis Products Co, Liverpool

CHALK, COMMON—1,600 bgs, Whittaker, Clark & Daniels, London—2,240 lbs, Taintor Trading Co, London—precipitated, 600 bgs, H J Baker & Bros, Liverpool

CHINA CLAY—46 bbls, E Fougera & Co, London

CINCHONA BARK—2,120 bgs, Reconstruction Finance Corp, Puerto Barrios—198 bgs, National City Bank, Callao—65 bgs, S B Penick & Co, Buenaventura

CINNAMON BARK OILS—1 cs, Geo Lueders & Co, Colombo—2 cs, Volkart Bros, Colombo

CITRONELLA OIL—1 dm, A Maschmeyer, Puerto Barrios—4 dms, Norda Essential Oil & Chemical Co, Puerto Barrios—2 dms, S B Penick & Co, Puerto Barrios—77 dms, Fruit Dispatch Co, Puerto Cortes

COBALT METAL—150 cks, African Metal Corp, Antwerp—oxide, 143 cks, African Metal Corp, Antwerp

COCOABUTTER—34 cs, G & W Laboratories, Santos

COCOA RESIDUE—3,200 bgs, Liverpool

COD OIL—100 dms, C H Powell Co, St Johns—52 cks, 8 dms, F W Damon, St Johns—100 dms, I D Irwin & Co, St Johns—50 dms, C A Andres Co, St Johns

CODLIVER OIL—36 dms, Vitaron Chemical Co, St Johns—11 dms, A Griffin & Co, St Johns—125 dms, Norwich Pharm Co, Bergen

CORIANDER SEED—469 bgs, Otto Gerdau Co, Buenos Aires—490 bgs, C T Wilson & Co, Buenos Aires

CORNMINT OIL—29 dms, Simab Corp, Santos

COTTON LINTERS—300 bls, Williamson Products Co, Santos—355 bls, Kauders Struber Co, Santos

COTTONSEED PITCH—133 dms, G S Siegler & Co, Beyrouth

CRESYLIC ACID—146 dms, Republic Chemical Co, Liverpool—50 dms, West Disinfectant Co, Liverpool—50 dms, Hagen Corp, Liverpool—100 dms, Crowley Tar Products Co, Liverpool—666 dms, Monsanto Chemical Co, Liverpool—312 dms, Liverpool

CUBE ROOT—103 bls, Morris Hess & Co, Callao

CUMIN SEED—600 bgs, C M Van Sillevoldt, Rotterdam—335 bgs, American Nile Corp, Beyrouth

CYANIDE, PRECIPITATED—9 cs, Irvington Smelting & Refining Works, Puna

CYMBARUM OIL—26 dms, Dodge & Olcott Co, Santos—4 dms, Simab Corp, Santos Santos

DOGGRASS ROOT—20 bls, Antwerp

DYES, ANILIN—47 dms, Ciba Co, Antwerp—15 cyls, Sandoz Chemical Works, Havre

FLEASEED—326 bgs, S B Penick & Co, Bombay

FUEL OIL—63,332 bbls, First National Oil Corp, Tampico—222,000 bbls, Standard Oil Co of N J, Aruba—66,108 bbls, Asiatic Petroleum Corp, Aruba—81,013 bbls, Standard Oil Co of N J, Guiria

GALLS—5 tcs, Wilson & Co, Buenos Aires—extract, 5 cs, Liverpool

GALLNUTS—313 bgs, Balfour, Guthrie & Co, Beyrouth

GAS OIL—66,667 bbls, First National Oil Corp, Tampico

GELATIN, POWDERED—20 bbls, Charles Products Co, Antwerp—29 cs, Actina, Inc, Rotterdam

GLUE—340 bgs, Transatlantic Animal By Product Co, Valparaiso—200 bgs, Polish Trading Co, Antwerp—200 bgs, Wessel, Duval & Co, Rio Grande

GLYCERIN—275 dms, Pasternak Co, Calcutta

GRAPHITE—1,000 bgs, Charles Pettinos, Colombo—250 bgs, Charles F Pettinos, Colombo

GREAVES CAKE—267 cakes, Van Iderstein Co, Buenos Aires

GYPSUM—21,936 tons, United States Gypsum Co, Windsor—14,080 tons, National Gypsum Co, Dingwall—200 bgs, Whittaker, Clark & Daniels, Liverpool—2,833 tons, National Gypsum Co, Walton

HENBANE LEAVES—5 bls, Lansen Naeve Corp, Beyrouth

HENNA LEAVES—210 bgs, S B Penick & Co, Bombay

HERRING MEAL—500 bgs, Wilbur, Ellis & Co, Bergen

ILMENITE SAND—8,700 tons, C Tennant Sons & Co, Liverpool

IRON OXIDE—10 cks, J Lee Smith & Co, Hull

JAMBUL SEED—49 bgs, E Meer & Co, Calcutta—20 bgs, Peek & Veinor, Calcutta

JUNIPER BERRIES—34 bgs, W J Bush & Co, Leghorn

KARAYA GUM—133 bgs, Wessel Duval & Co, Bombay—66 bgs, Wm M Allison & Co, Bombay

KYANITE ORE—249 tons, Smith, Weihman Co, Calcutta

LANETTE WAX—32 cs, Liverpool

LAUREL LEAVES—361 bls, Manufacturers Trust Co, Izmir—90 bls, Kachurin Drug Co, Izmir—90 bls, Kachurin Drug Co, Leghorn

LEMONGRASS OIL—3 dms, Givaudan-Delawanna, Puerto Barrios—4 dms, Norda Essential Oil & Chemical Co, Puerto Barrios—15 dms, W J Bush & Co, Puerto Barrios—2 dms, H A Sothern Co, Puerto Barrios—33 dms, Norda Essential Oil & Chemical Co, Cochin—12 dms, Givaudan-Delawanna, Cochin—12 dms, P R Dreyer, Cochin—18 dms, Van Ameringen, Haebler, Inc, Cochin—5 dms, Volkart Bros, Cochin—6 dms, Dodge & Olcott Co, Cochin

LEMON PEEL—90 cs, R L Alberto & Son, Buenos Aires

LICORICE EXTRACT—750 bgs, W E Martin Co, Izmir—2 bgs, Vermilye Co, Izmir—root, 50 bls, Universal Foreign Trading Co, Beyrouth

LIQUIDAMBAR—1 dm, Cortz Trading Corp, Puerto Cortes—2 dms, Fritzsche Bros, Puerto Cortes

LOCUST BEAN GUM—100 bgs, Stein, Hall & Co, Liverpool—100 bgs, Brown Bros-Harrimann Co, Liverpool—300 bgs, Stein, Hall & Co, Rotterdam

MAGNESIA CARBONATE—21 cs, Lo Curto & Funk, Liverpool

MAGNESIA TRISILICATE—200 cs, Schofield Donald Co, Liverpool

MANDARIN OIL—8 cs, Fritzsche Bros, San Francisco do Sul

MANGROVE EXTRACT—1,120 bgs, Royal Bank of Canada, Buenaventura

MANIOC MEAL—459 bgs, Wedeman & Godknecht, San Francisco do Sul—1,666 bgs, Java American Export Co, Rio de Janeiro—4,000 bgs, Fred Collin, Rio de Janeiro—6,000 bgs, Stein, Hall & Co, Porto Alegre

MARJORAM LEAVES—200 bgs, Bank of London & South America, Arica

MENTHOL—50 cs, Lo Curto & Funk, Santos—50 cs, Biddle Sawyer Corp, Rio de Janeiro—150 cs, C L Huisking & Co, Santos—75 cs, Volkart Bros, Santos

MICA—46 cs, Sussex Trading Corp, Rio de Janeiro—40 cs, H G Brake & Co, Rio de Janeiro—142 cs, Cosmopolitan Trading Corp, Rio de Janeiro—33 cs, H C Brake, Rio de Janeiro

MOLASSES—457 tons, Standard Brands, Inc, Salaverry

MUSK SEED—15 bgs, Brazilian Warrent Co, Santos

MUSTARD SEED—300 bgs, Louis Furth, Inc, Copenhagen—250 bgs, A Ertag, Inc, Copenhagen—100 bgs, Becker Mayer Seed Co, Copenhagen—400 bgs, C M Van Sillevoldt, Copenhagen

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PAREIRA BRAVA ROOT—10 bls, S B Penick & Co, Santos
PARSLEY SEED—100 bgs, Wedeman & Godknecht, Copenhagen
PEPPER—65 bgs, Knickerbocker Mills Co, Port Limon—black, 4,000 bgs, Commodity Credit Co, Cochin—100 bgs, International Handel Credit, Rotterdam—white, 86 bgs, Catz American Co, Rotterdam
PERILLA GUM—25 cs, 58 bgs, Chicle Development Co, Buenaventura
PETROLEUM, CRUDE — 101,319 bbls, Standard Oil Co of N J, Cartagena—125,276 bbls, Standard Oil Co of N J, Puerto La Cruz—51,024 bbls, Standard Oil Co of N J, Las Piedras—49,678 bbls, Cities Service Oil Co, Las Piedras
POPPYSEED — 100 bgs, Richard Spitz, Rotterdam—150 bgs, Levy & Levis Co, Rotterdam—100 bgs, Louis Furth, Rotterdam—50 bgs, Braun Importing Co, Rotterdam—300 bgs, A G Dunn, Copenhagen
POTASH CHLORATE—12 cns, International Selling Corp, Havre
POTATO DEXTRIN—3,050 bgs, Stein, Hall & Co, Rotterdam
POTTERS COLORS—4 cks, B F Drakenfeld & Co, Liverpool
QUEBRACHO EXTRACT—3,000 bgs, International Products Corp, Buenos Aires—10,300 bgs, Vermilye Co, Buenos Aires—4,010 bgs, River Plate Import & Export Corp, Buenos Aires—300 bgs, Vermilye Co, Hull
QUICKSILVER — 2,500 flasks, Leghorn Trading Co, Leghorn
REFUSELAC—2.0 bgs, Colony Import & Export Co, Calcutta
ROSIN, LIQUID—1,433 dms, Guaranty Trust Co, Harnosund
SACCHARIN—1 cs, Edmond Cavounas, Piraeus—1 cs, Birch Kline Co, Antwerp
SADDLE SOAP—100 cins, J J Gavin & Co, London
SAGE LEAVES—61 bgs, Piraeus
SARSAPARILLA ROOT—13 bls, Petrometal Export Corp, Puerto Barrios
SEEDLAC—500 bgs, Bank of London & South America, London—50 bgs, New York Trust Co, London—50 bgs, Corn Exchange Bank, London—25 bgs, London
SELENIUM—2 cs, International Nickel Co, London
SENNA LEAVES—155 bls, Sterling Drug Co, Tuticorin—100 bls, E Meer & Co, Tuticorin—157 bls, S B Penick & Co, Tuticorin
SHARK OIL—112 dms, Distillation Products, Inc, Buenos Aires
SHARK LIVERS—6 dms, Cuban American Products Co, Havana
SHELLAC—500 bgs, Wm Diehl & Co, Calcutta
SIENNA, EARTH — 45 cks, Reichard-Coulston, Inc, Leghorn
SOAPBARK—60 bgs, Peek & Velsor, Valparaiso
SODA CRYSTALS, CONCENTRATED—170 bgs, Yardley & Co, Liverpool
SODA CYANIDE—518 dms, H J Hones & Co, Liverpool
SODA MORRHUATE—1 cs, Lo Curto & Funk, London
STARCH, SOLUBLE—830 bgs, Stein, Hall & Co, Rotterdam
STEATITE—4 bbls, M Kirchberger & Co, Leghorn
TALC—136 bgs, F B Vandegrift & Co, Genoa
TAPIOCA, FLAKE—534 bgs, Stein, Hall & Co, Santos—flour, 500 bgs, Geismar & Co, Santos
TARA, POWDERED—140 bgs, Guaranty Trust Co, Callao
TEAWASTE—700 bgs, Maywood Chemical Works, Colombo
THEOBROMINE—36 kgs, McKesson & Robbins, Santos
TIMBO ROOT—120 bgs, R J Prentiss & Co, Santos
TINT, LAUNDRY—6 cks, A De Ronde & Co, Liverpool
TRAGACANTH GUM—140 cs, E Meer & Co, Beyrouth
TRIACETINE ALCOHOL—1 cs, Van Ameringen Haebler, Hull
VANILLA BEANS—25 cs, Manufacturers Trust Co, Marseilles
VEGETABLE WAX—45 bgs, Strohmeyer & Arpe Co, Buenaventura
VALERIAN ROOT—49 bls, J H Brown Agencies
VALONIA—11,242 bgs, Barkey Importing Co, Izmir
VETIVER OIL—1 dm, Edwin Seebach, Rio de Janeiro
WHITING—1,200 bgs, Taintor Trading Co, Hull
WOLFRAM ORE—600 bgs, Philipp Bros, Arica—1,000 bgs, Philipp Bros, Antofagasta—713 bgs, W R Grace & Co, Mollendo

Baltimore

ASBESTOS—1,000 bgs, Johns-Manville Corp, Lourenco Marques
CHROME ORE—999 tons, Westinghouse Electric International Co, Lourenco Marques
CANARY SEED—846 bgs, W G Scarlett & Co, Buenos Aires
CARAWAY SEED—100 bgs, W G Scarlett & Co, Rotterdam
FLEASEED—360 bgs, W G Scarlett Co, Karachi
GALLNUTS—672 bgs, Hongkong
GAS OIL—39,862 bbls, Standard Oil Co of N J, Aruba—40,305 bbls, Consolidated Gas & Electric Co, Aruba
ILMENITE ORE—4,081 tons, Chemical & Pigment Co, Jossingfjord—3,010 tons, E I Du Pont de Nemours & Co, Jossingfjord
MANGANESE ORE—6,050 tons, Carnegie Illinois Steel Co, Durban—5,000 tons, Bethlehem Steel Co, Durban
POPPYSEED—400 bgs, W G Scarlett Co, Rotterdam
SODA SILICOFLUORIDE—200 bgs, W H Masson, Inc, Copenhagen
SODA NITRATE—5,400 tons, Guaranty Trust Co, Valparaiso

Boston

ASBESTOS—2,250 bgs, Johns-Manville Corp, Lourenco Marques
BONE MEAL—1,000 bgs, T M Duche & Sons, Antwerp
BONES—377 bgs, Eastman Gelatine Corp, Montevideo
CORUNDUM—675 bgs, Watson Geach & Co, Lourenco Marques
GLUESTOCK—67 rolls, 1 bl, H Remis & Co, Santos—111 bls, J Garvers Co, Buenaventura
QUEBRACHO EXTRACT—4,201 bgs, American Tanners, Ltd, Buenos Aires
TEXTILE GUM—60 cks, J P Marston & Co, Liverpool
WATTLE BARK EXTRACT—999 bgs, National Shawmut Bank, Durban

Chicago

GALLS—5 tcs, S Svendsen, Santos
GRAPHITE — 500 bgs, Superior Flake Graphite Co, Colombo
LAVENDER OIL—3 dms, Mane Fils, Marseilles
MANIOC MEAL—10,000 bgs, G F Langcher, San Francisco Do Sul
OLIVE OIL—200 cs, Paris Brokerage Co, Leghorn—200 cs, A Gember & Co, Leghorn
SHELLAC—100 bgs, First National Bank, London

Peoria

SENNA LEAVES—70 bls, Allaire Woodward & Co, Tuticorin

Philadelphia

ASBESTOS—2,400 bgs, Keasley & Mattison, Beira
BONES—10,525 bgs, Baugh & Sons, Buenos Aires
CODLIVER OIL — 350 dms, Whitmoyer Laboratories, St Johns
GLYCERIN—180 dms, Judson Sheldon Co, Buenos Aires—500 dms, Bristol-Myers Co, Buenos Aires—200 dms, Philadelphia National Bank, Montevideo—85 dms, Guaranty Trust Co, Montevideo—88 dms, Kress & Owen Co, Buenos Aires—350 dms, H M Foure & Co, Bombay
MANGANESE ORE—4,000 tons, Bethlehem Steel Co, Bombay
MENTHOL—1,172 cs, Vick Chemical Co, Santos
QUEBRACHO EXTRACT—4,204 bgs, American Tanners, Ltd, Buenos Aires
SODA SILICOFLUORIDE—214 bbls, H Kohnstamm & Co, Copenhagen
TUNGSTEN ORE—318 bgs, Foote Mineral Co, Buenos Aires

Providence

COD OIL—160 dms, Providence Chemical Co, St Johns
FUEL OIL—95,000 bbls, Standard Oil Co of N J, Aruba

Rochester

MUSTARD DROSS—720 bgs, Atlantis Sales Corp, London
ULTRAMARINE BLUE—80 cks, R T French Co, Hull

San Francisco

CELERY SEED—162 bgs, D Hecht & Co, Karachi

Seattle

SHARK LIVER OIL—20 dms, Wilbur, Ellis & Co, Capetown

Wilmington

SULPHADIMETHYLPYRIMIDIN—1 cs, E I Du Pont de Nemours & Co, Liverpool

Trade Briefs

Swenson Evaporator Company, a division of Whiting Corporation, Harvey, Ill., has completed a new spray dryer research building housing what is claimed to be the world's most advanced spray dryer research facilities.

Leonard Dreyfuss has sold his majority interest in the Canton Glass Company, Marion, Ohio, to Horace C. and William M. Wright. Mr. Dreyfuss had been president of the company.

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Neo-Fat Synthetic Drying Oils . . . Fractionated fatty acids re-esterified to form uniform, fast-drying, quick-bodying oils.

Armeens (Aliphatic Amines) . . . cationic organic bases made from each of the Neo-Fat fatty acids.

Armacs (Amine Acetate Salts) . . . water-soluble amine acetates made from the Armeens by neutralizing with glacial acetic acid.

Armids (Aliphatic Amides) . . . high-melting organic nitrogen chemicals, derived from the full range of Neo-Fat fatty acids.

Arneels (Aliphatic Nitriles) . . . organic cyanides from fats, including the 8 to 18 carbon atom chain lengths.

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Oil Chemists

—Continued from page 5

belief that they may prove useful to others engaged in the routine analysis of soap products.

C. W. Georgi, of the Enterprise Oil Company, in discussing, "Fats and Fatty Acids for Lubricating Grease Manufacture," presented general summary of the poundage and types of fats and fatty acids used by the lubricating grease industry and gave a description of how these raw materials are utilized in the manufacture of lubricants. The properties imparted to lubricating greases by different types and varieties of fats and fatty acids also was discussed.

"The Use of Fats and Oils in the Leather Industry," presented by Edwin R. Theis, Institute of Research of Lehigh University, gave a review of the use of animal, vegetable, and marine fats and certain waxes in the leather industry. An outline of the use of the various oils and fats, and sufficient technical details to give a clear picture of the use of these products in the fabrication of modern leathers, were included in the paper.

Robert R. Ackley, of Onyx Oil & Chemical Company, Jersey City, N. J., in discussing "Synthetic Detergents Derived from Fats and Oils," said much of the current increase in consumption of synthetic detergents has indicated a trend away from fats and oils as starting materials. This paper dealt with detergents from fatty sources, with indications of their fields of usefulness, especially in the textile industry.

L. O. Buxton, National Oil Products Company, Harrison, N. J., in discussing, "Studies of Solvent Fractionation of Fish Liver Oils," said several different species of fish liver oils were fractionated using 91 percent, 95 percent and 99 percent isopropanol, 95 percent acetone, and 100 percent methanol. All of the solvent extract fractions possessed much higher vitamin A values than the oils themselves. he said.

Analytical data obtained on several of the oils and their fractions show that the solvent extracts have a higher content of unsaponifiable matter of free fatty acids, as well as higher iodine value, than the original oils or their residual fractions, Mr. Buxton said.

Studies involving peroxidation and vitamin A destruction rates established that the antioxidants associated with the crude oils are concentrated in the solvent extract fractions according to the paper. It was claimed that methanol removed only part of the antioxidants from the crude oils, while 99 percent and 95 percent isopropanol and 95 percent acetone removed substantially all of the antioxidants. The methanol extract fractions reportedly exhibited a very slow rate of peroxidation and better vitamin A stability than the crude oils. Mr. Buxton said all of the solvent extract fractions showed increased vitamin A stability and a slower peroxidation rate than the crude oils or their residual fractions.

The extracts prepared from three species of shark liver oil—namely soupfin, Mexican, and dogfish—using 99 percent and 95 percent isopropanol and 95 percent acetone, were said to have displayed a type of peroxidation, in storage of the materials at 34.5° percent C., entirely different from that given by the crude oils or their fractions and by oils of analogous type containing added a-tocopherol, with and without added lecithin. The same characteristic type of peroxidation was observed, the paper read, when the storage tests were conducted at 50° and 65° C.

The peroxide number of the samples stored at the higher temperatures increased very slowly, according to Mr. Buxton, suggesting that the peroxides were decomposing about as rapidly as they were forming. This was borne out, he added by the fact that vitamin A destrucution was much more rapid at the higher temperatures.

On the basis of the type of peroxidation displayed by the various concentrates of solvent extract fractions, he felt justified to conclude that the crude fish liver oils studied —namely two lots of soupfin shark liver oil, three lots of dogfish liver oil, two lots of halibut liver oil, and one lot each of Mexican shark liver oil, bluefin tuna liver oil, swordfish liver oil, sole liver oil, lingcod liver oil, and blackcod visceral oil—do not derive their major antioxidant activity from a eompound of the a-tocopherol type.

Cuban Oils, Fats Imports Decreased

Cuban imports of edible vegetable oils totaled 2,906,082 pounds from January through May, 1946, compared with 3,161,876 pounds in the like period of 1945, according to a report of the Department of Commerce.

Imports of edible animal oils during the period increased sharply, with edible animal fats totaling 30,995,229 pounds, of which all but 110,691 pounds was lard. In the corresponding period of 1945, such imports totaled 21,145,206 pounds, lard arrivals amounting to 21,976,153 pounds.

Cuba's imports of industrial fats and oils from January through May, 1946 amounted to 6,603,009 pounds, compared to 8,962,294 pounds in the corresponding period in 1945. Tallow and linseed oil were the most important items in this group.

General Mills Plant Gets Final Approval

The board of directors of General Mills, Inc., Minneapolis, has given final approval of a new organic chemical plant at Kankakee, Ill. The plant will be operated by the company's chemical division and will be specially designed for the production of fatty acid and fatty acid derivatives.

McElroy Advanced By Procter & Gamble

Neil H. McElroy, formerly vice-president in charge of advertising and promotion, serving as assistant to the president, has been elected to the newly created position of vice-president and general manager of the Procter & Gamble Company, Cincinnati.

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Oils, Fats and Waxes

As a result of the removal of price controls, October 29 by OPA of oils and fats remaining under ceilings, the market became a hectic affair last week under a wild buying scramble and trading was transacted at drastic price advances. Consumers increased bids sharply and sales took place at advances ranging up to 100 percent above former ceilings. Prices were boosted for coconut, linseed, sardine, corn, oiticica and red oils, stearic acid and tallow. Tallow was in heavy demand and considerable quantities of extra were purchased in the Middlewest and Pacific Coast for the account of soapmakers and other users at a substantial increase over former ceilings. The bulk of business was done by the smaller producers and renderers, as large packers were reported still out of the market. The fact that paint ceilings were still in effect, restricted the demand for linseed oil by the paint trade.

While the lifting of oil controls spurred the demand for drying oils, the scarcity of linseed, dehydrated castor, oiticica and tung oils, it was pointed out, would materially limit the volume of trading that is bound to occur in other oils.

All edible and inedible fats oils remaining under price ceilings, were decontrolled by OPA effective October 29. The following oils were lifted from control: Linseed, tung, palm, coconut, palm kernel, olive oil foots, babassu, perilla, dehydrated castor, neatsfoot, cod, and other fish oils, oiticica, tucum and poppyseed oils, inedible tallow and grease and wool grease. At the same time processors who have been selling linseed oil under adjustable pricing were permitted to collect 1.7c per pound more than former ceilings.

Import controls on edible and inedible olive oil, were removed through amendment of WFO 63, effective October 28, by the Department of Agriculture.

Cottonseed Oil

Recent heavy trading in crude cottonseed oil since the removal of prices control has, it was estimated contracted for more than half of the new crop in the Southeast. Market was steady though buying interest has slackened. Crushers, however, were not pressing sales and the market remains in a firm position. Sales was made at 22 1/2c. per pound, tankcars, for prompt and nearby shipment and February forward was quoted at 22c., same basis. Later in period bids were increased ½c. for all positions.

Trading in refined yellow bleachable oil was slightly better and was centered in January. Offerings were still limited and readily taken. Prices were easy and irregular early in the week, but developed a stronger tone in sympathy with strength in the cotton market on Thursday.

Memphis, Oct. 31.—Crude cottonseed oil quoted at 23c. per pound, tankcars, Valley basis, for November-December shipment. Cottonseed meal quoted at $85 per ton, Memphis, for November-December. Soybean meal, $92.50 per ton, sacked, Memphis for December. Weather favorable for gathering cotton crop.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended Friday, November 1, were:—

	Sales	Cents per pound—High	Low	Close
November	..	..	..	..
December	1	25	25	25 bid
January	15	24¾	23.90	23¾ bid
March	1	24½	21	23½ bid
May	..	24	20	24 bid
July	1	23¼	20½	22 bid
September	..	23	21.80	21.80 bid
October	1	21	18	19 ask

Total sales, 18 contracts.

Crude oil, 23c. per pound, loose, for prompt and nearby, and 22½c. for future shipments in all sections of the Belt.

Linseed Oil

Prices of linseed oil ware sharply boosted following the removal of price controls by OPA, October 29. This brought out an active inquiry and raw oil sold at 34 1/2c. per pound, tankcars for prompt delivery, and at 34.7c. per pound, in tank wagons. Most crushers were not offering and business was transacted under competitive bidding. Drums, carlots were quoted at 35.3c. per pound and smaller lots at 35.7c. to 36.3c. per pound, as to quantity. With the advance of seed to $7.25 per bushel, trading was reported at 35c. tankcars for spot oil in the Midwest. Replacement oil was quoted 2c. per pound below raw oil in tankcars.

OPA announced October 29, that processors who have been selling linseed oil on a price adjustable basis were permitted to collect 1.7c. per pound more than former ceilings.

Minneapolis, Oct. 30.—It took the linseed oil trade less than 24 hours after the decontrol announcement was made to settle on a base price at Minneapolis and get under way supplying oil customers. Raw oil, Zone No. 1, in tanks quoted at 34.1c. Demand was active at the new price. Many buyers, despite the high price, endeavored to make large purchases on a long term basis, but crushers were making every effort to allot supplies on a historical record and satisfy needs of all oil buyers on a fair level.

Shipments of linseed oil, in pounds, were as follows:—

	1946-47	1945-46
This week	3,780,000	7,500,000
Since Sept. 1	51,320,000	63,640,000

Flaxseed—Crushers absorbed all offerings of seed and were bidding for additional supplies.

Minneapolis, Oct. 30.—Decontrol of linseed oil threw the market into confusion temporarily at Minneapolis but after the shouting had died down it was discovered that there was no difference in the flaxseed price or the situation. Receipts of flaxseed continued to increase and crusher and elevator buyers absorbed everything offered at $7.00 per bushel that seems to be the peg. Buyers were aggressive on to arrive offerings and paid the spot price for everything offered. Competition was keen at all times but not enough to raise prices. Most of the trade feels that higher prices will not bring in any more seed as producers are already shipping their seed stocks into market and harming chances for a large 1947 acreage. Crushers, fully aware of the situation, are making every effort to guard the seed supply and many are laying away seed quality flax in segregated lots to insure a supply for Spring.

Bushels—	Receipts 1946-47	Receipts 1945-46	Shipments 1946-47	Shipments 1945-46
This week	1,152,600	759,500	120,700	269,300
Since Sept. 1.	6,282,900	13,782,000	1,872,200	1,433,400

Flaxseed was quoted at $7.25 per bushel for spot delivery at Minneapolis and Duluth.

Buenos Aires, Nov. 1.—No flaxseed shipments were made last week. Visible supply of flaxseed was not reported.

London, Nov. 1.—Linseed oil, spot, quoted at 135s. per 112 pounds.

Other Vegetable Oils

Castor, Dehydrated—As a result of the removal of price control, producers withdrew temporarily from the market. Consuming demand was active.

Coconut—Cancellation of price control caused the market to advance sharply and some business was reported in crude oil at 18c. per pound, tankcars, f.o.b. Pacific coast with asking prices named up to 20c., same basis. Copra ceilings were not decontrolled.

Corn—Inquiry was keen following the removal of OPA price controls, October 29 and market was higher. Offerings were limited with demand excellent. Sales were reported in crude oil at 26c. and refined at 28c. in tankcars, f.o.b. Chicago.

Olive—Buying interest was moderate and trading was spotty for edible

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Coconut oil, crude, 9.32c. per lb.
Corn oil, crude, 11½c. per lb.
Linseed oil, 16½c. per lb.
Oiticica oil, 4½c. per lb.
Oleo oil, 5c. per lb.
Red oil, 6¾c. to 8⅝c. per lb.
Sardine oil, 12.1c. per lb.
Stearic acid, 6⅝c. to 9⅜c. per lb.
Tallow, 9⅝c. per lb.

Prices Reduced

Candelilla wax, 3c. per lb.
Carnauba, No. 3, chalky, 5c. per lb.
N. C., No. 2, 8c. per lb.
N. C., No. 3, 5c. per lb.
refined, 5c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev week.	Last month.	Last year.
266.9	228.0	210.0	193.3

(For Current Prices see Page 9)

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OLEIC ACID
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FATTY ACIDS
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oil on the spot at $8.50 to $9 per gallon, in drums, duty paid, last week. Supplies here were light and were closely held. Interest in shipments was fairly active, with offerings of old crop scarce from primary markets. Reports from Mediterranean countries indicated a good production for the new crop. Arrivals totaled 318 drums, 164 barrels, and 4,410 cases of oil from Leghorn and Tripoli at New York last week, for delivery against the recent soybean oil quota.

Oiticica—Prices were advanced to 30c. to 31c. per pound, in drums, last week, an increase of 4 1/2c. per pound for spot and prompt delivery. Supplies on the spot were scanty. Offerings for shipment were unavailable and the market was reported entirely nominal.

Peanut—Inquiry for crude oil was active last week, but offerings continued scarce and market was firm at 26c. asked per pound, tankcars, f.o.b. mills. Refiners were showing more interest in peanut than in cottonseed oil at the moment.

Soybean—While inquiry was not as heavy as a week ago, sellers were not pressing for business and the market continued firm. Trading was reported at 22c. per pound, tankcars, f.o.b. mills for nearby shipment and March forward was generally held at 20c., same basis. Sales of winterized were reported at 25 1/2c. per pound, tankcars, f.o.b. Decatur.

Tung—Higher prices for linseed and oiticica oils were not reflected in tung oil last week, sellers adhered to recent ceiling levels. Trading was reported as fair for prompt and nearby delivery. Market was firm here and abroad.

Fats and Greases

Greases — While inquiry for all grades was keen last week, trading was reported quiet. Market was firmer with tallow. Sellers withdrew from the market, following the lifting of price controls, and quotations were entirely nominal.

Lard—Firm conditions continued to feature this market. Demand was urgent but offerings were scarce. Prices of prime steam were nominal at 40¾c. per pound, tierces, New York and 40c., Chicago. The Chicago Board of Trade established margin requirements of lard futures at $4 per 100 pounds or $2,000 per contract. Trading in future contracts for July and September, 1947 on that exchange will begin November 4.

Tallow — Considerable trading was transacted in extra tallow at 17 3/4c. per pound, loose in the middle West and Pacific coast by soapmakers and other users last week, compared with the recent ceiling of 8 5/8c. per pound. Bulk of the business was booked by outside producers and renderers. Large packers were reported still out of the market.

Animal Oils

Degras—This market was reported steady, with trading moderate and for prompt requirements. Prices were well held for all grades.

Grease Oil—Prices were withdrawn following the lifting of ceilings by OPA last week. Inquiry was fairly active.

Neatsfoot Oil—Producers were not offering and prices were merely nominal. Recent light production was sold up.

Oleo—Consuming inquiry continued keen and prices were further increased last week. Extra was quoted at 38½c. per pound, loose, Chicago.

Fish Oils

Cod — This market continued entirely nominal in the absence of supplies on the spot and offers for shipment from Newfoundland. Arrivals totaled 418 drums and 52 casks at New York last week and were delivered against former contracts.

Menhaden—Removal of price ceilings and the sale of sardine oil 22½c. per pound, upset the market and producers of menhaden oil were ex-

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pected to announce a price for crude oil shortly.

Baltimore, Oct. 31.—Removal of price ceilings on menhaden oil by OPA, October 29, resulted in an active consuming inquiry. Producers were not offering, but it was expected that they would announce selling price momentarily, owing to the fact that sales of crude sardine oil were made at 22½c. per pound, loose, f.o.b. Pacific coast. Operations of the fishing fleet in the Chesapeake Bay and northern waters have come to an end. As for the Florida season, the time is still some time off before it can be determined whether the schools have gotten so far south.

Sardine — Lifting of price ceilings resulted in sales of crude oil at 22½c. per pound, bulk, Pacific coast last week. Offerings were restricted owing to the uncertainty of making delivery of oil because of the poor catch of fish thus far this season.

Los Angeles, Oct. 30.—Trading in crude oil was reported at 22½c. per pound, and up to 25c. was asked. Offerings were limited. Catch for the season to October 25 was 83,890 tons, compared with 237,392 tons for the same period last year.

Fatty Acids

Red Oil—Lifting of price control resulted in an urgent demand but with supplies scarce, manufacturers endeavored to purchase raw materials and were reported bidding at substantial advances above recent ceilings. Red oil prices were advanced and were entirely nominal at 20c. to 25c. per pound, depending upon grade, quantity and seller.

Stearic Acid — Same conditions apply in this market as in red oil. Producers were reported to have bid higher prices for tallow to meet an active demand for stearic acid. Prices were merely nominal ranging from 22c. to 28c. per pound, according to grade, quantity and seller.

Cake and Meal

Cottonseed Meal—Offerings of meal were scattered last week as crushers were not pressing sales. Consuming demand was less active and trading was mainly for actual requirements. Market continued steady. Meal, 36 percent was quoted at $85 per ton and 41 percent, $95 per ton, f.o.b. mills in the Southeast. Black market and barter sales have disappeared.

Linseed Meal — Market was firm under an active demand. Sales were transacted at $95 per ton bulk f.o.b. western mills.

Minneapolis, Oct. 30. — Demand for meal continued brisk and prices firmed $1.00 per ton as buyers seemed perfectly willing to pay $95.00 per ton, bulk at Minneapolis. Instructions excellent on maturing contracts. Supplies in a forward position extremely light.

Shipments of linseed meal, in pounds, were as follows:—

	1946-47	1945-46
This week	8,620,000	11,940,000
Since Sept. 1	66,080,000	99,180,000

Peanut Meal—Production has been light to date and offerings were absorbed from $90 to $95 per ton, f.o.b. mills November-December shipment in Alabama and Georgia by the feedstuffs trade. The bulk of trading was reported for eastern feeders account, who were having difficulty obtaining soybean meal.

Soybean Meal—Trading was reported at $90 per ton, f.o.b. Decatur, for prompt and nearby shipment. Market was firm and offerings were limited, with some producers reported sold up.

Waxes

Beeswax — Demand was reported good and the market remains steady. African crude for shipment was continued firm and in good request.

Candelilla—This market was dull and easy. Demand was limited to small lots for actual needs. Spot supplies were lower and offered at 75c. to 78c. per pound, as to quantity.

Carnauba—Further weakness in the Brazilina market was reflected in the spot situation and prices declined 5c. per pound for all grades. Trading was quiet for spot delivery and for shipment. Chalky, No. 3, was quoted at $1.50 to $1.55 per pound, N. C. No. 2, $1.65 to $1.70; N. C., No. 3, $1.60 to $1.65, and refined, $1.70 to $1.75 on the spot.

Montan—Sales of a sizable quantity for export has improved the tone of the spot market. Demand was routine for domestic needs.

Ouricury—Increased offerings and light demand weakened the spot market and quotations were reduced 5c. per pound. Crude was offered at 90c. to 91c. per pound and refined at 98c. to $1.00 per pound, according to quantity.

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Fitzpatrick Model "D".

30 TABLET MACHINES
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1—1,200 gal. closed jack. Kettle or Vacuum Still.

2—Closed jack. agitated Kettles or Vacuum Stills.

1—350 gal. closed jack. agit. Kettle.

25—350 GAL. NEW CLOSED HORIZONTAL STORAGE TANKS, OVAL SHAPED, APPROX. 46" AND 28" BY 61" LONG, 18" ROUND MANHOLE IN TOP. ¼" PLATE.

CRYSTALLIZERS
VACUUM PAN DRYERS

3—Buflovak 6' dia. Jacketed Vacuum Pan Dryers or Crystallizers—also two of atmospheric type, same size, also jacketed and agitated—300 gallons capacity—cast iron—jackets cast integral with shells.

6—Swenson-Walker Continuous Steel Jacketed Crystallizers, Mixers or Dryers, each made up of four 24"x20"x10' long sections with heavy spiral ribbon agitators. Each unit with worm gear speed reducer.

DRYERS

1—Devine VACUUM SHELF DRYER, 14 shelves, 40x48; also 10-SHELF DRYER, Complete.

2—A. N. 4' dia. x 9' long atmospheric double drum dryers complete.

6—B. & C. 28" dia. x 60" face Atmospheric DOUBLE DRUM DRYERS complete.

9—Direct heat ROTARY DRYERS: 5'x30', 6'x35'.

6—ROTARY VACUUM DRYERS; 1—Devine, 5'x30'; 3—Devine, 4'x25'; 1—Devine, 4'x20'; 1—Struthers Wells, 30"x12'.

1—6'x25' Louisville Direct Heat single shell Rotary Dryer.

8—8'x50' Direct Heat Rotary Dryers.

1—4'x25' Ruggles-Coles Indirect Heat Rotary Dryer.

2—4'x20' ROTARY KILNS, Ruggles-Coles, geared-head, motor drive.

GEAR REDUCERS and MIXERS

41—Phila. type HVT, Class 1, size 1100, GEAR REDUCERS, ratio 88 to 1, horsepower 16.7 at 1750 RPM.

29—Phila. MOTO-REDUCERS, with 2 HP 2 speed, totally enclosed, fan cooled and explosion-proof motors. Vertical; Output speed 87 and 29 RPM at HP 2/.67.

1—Colton No. 14 FULLY AUTOMATIC TUBE FILLER, Closer and Clipping Machine. Can be adapted for Clipless Closure.

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1—Colton No. 2 worm type TUBE FILLER.

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1—Colton No. 3 TUBE CLOSER and CLIP FASTENER.

2—Stokes Hand Tube Fillers.

4—Hand Closers and Crimpers.

26—150 gallon STAINLESS STEEL TANKS.

2—20"x48" water cooled 3-ROLLER MILL.

1—16"x40" Lehman 3-ROLLER MILL. water cooled, motor driven, upright type.

4—Stokes "R" Single Punch TABLET MACHINES, m.d.

VACUUM PANS
(All Copper)

1—18"x48" exp., with Agitator.

1—40 gal. Burkhard, Coils and jacket.

1—150 gal. 36"x24", jacketed, agitated, with Condenser, catch-all, Vacuum Pump.

1—125 gal. 30"x30", jacketed with condenser.

1—250 gal. 40"x37", jacketed with condenser.

1—250 gal. Copper jack. agit. closed Kettles or Vac. Stills.

1—World straight line auto LABELER, M.D.

2—Weeks McDonald straight line fully automatic LABELERS. motor driven.

10—Copper & Aluminum KETTLES to 500 gal. cap.

5—World and Ermold semi-automatic LABELING Machines, MD

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1—F. J. Stokes auger Powder FILLER.

1—J. H. Day auger FILLER.

2—Colton No. 3 TOGGLE Globule PRESSES, for making capsules.

11—250 gal. closed GLASS LINED TANKS.

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2—Raymond PULVERIZERS—4-Roll High Side; Nos. 1, 0, 00, 000, two Bowl Mills.

7—Hardinge CONICAL MILLS: 8'x 30", 6'x22", alloy lined; 10'x48", 8'x36", 6'x22" and 3'x8", iron lined.

6—ATTRITION MILLS. Bauer and Robinson, 22", 24", 30", 36"—motor driven.

8—Vibrating SCREENS: two 3'x6' Sturtevant 2-deck all-enclosed; three 3'x5', 4'x5' 1-deck Tyler Hummers.

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10—Stokes "F," ¾".
5—Colton Single Punch, ⅝".

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